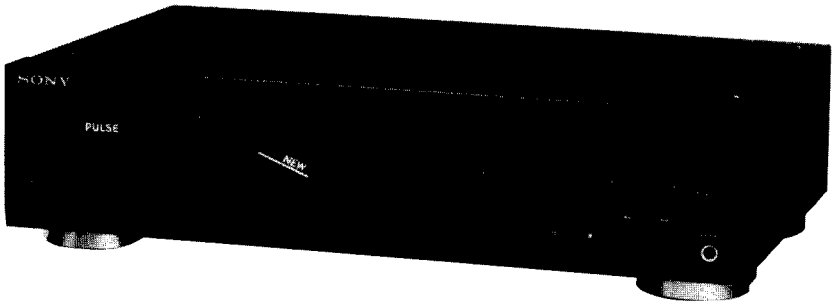
CDP-797

SERVICE MANUAL

AEP Model
UK Model



Model Name Using Similar Mechanism	CDP-791
CD Mechanism Type	CDM14-5BD8A
Optical Pick-Up Block Type	BU-5BD8A

SPECIFICATIONS

Compact disc player

Frequency response	2 Hz to 20 kHz ±0.5 dB
Signal-to-noise ratio	More than 110 dB
Dynamic range	More than 98 dB
Harmonic distortion	Less than 0.0027%
Channel separation	More than 105 dB

Outputs

LINE OUT (FIXED) (phono jacks)
Output level 2 V (at 50 kilohms)
Load impedance over10 kilohms
LINE OUT (VARIABLE) (phono jacks)
Output level max. 2 V (at 50 kilohms)
Load impedance over 50 kilohms
DIGITAL OUT (OPTICAL) (optical output connector)
Wave length 660 nm
Output level −18 dBm
PHONES (stereo phone jack)
Output level max. 10 mW
Load impedance 32 ohms

General

Power requirements	AEP, Germany models: 220 V – 230 V AC, 50/60 Hz UK model: 240 V AC, 50 Hz
Power consumption	12 W
Dimensions (approx., including projections)	430 x 110 x 295 mm (w/h/d) (17 x 4 5/16 x 11 5/8 inches)
Weight (approx.)	3.9 kg (lbs oz)

Remote commander

Remote control system	Infrared control
Power requirements	3 VDC with two R6 (size AA) batteries
Dimensions (approx., including projections)	62 x 18 x 175 mm (w/h/d) (2 1/2 x 23/32 x 7 inches)
Weight (approx.)	130 g (4.6 oz) Including batteries

Supplied accessories

Audio connecting cord	(1) (2 phono plugs – 2 phono plugs)
Remote commander	(1)
Sony SUN-3(NS) batteries	(2)

Design and specifications are subject to change without notice.

MICROFILM

COMPACT DISC PLAYER

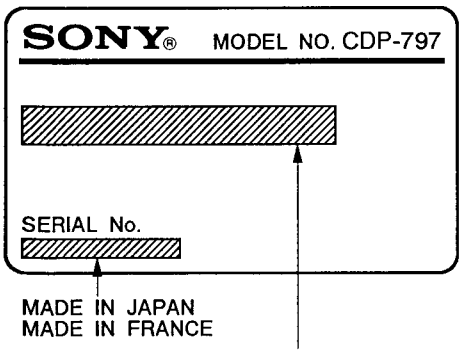
SONY

TABLE OF CONTENTS

Section	Title	Page
	Specifications	1
	Model Identification	2
	Notes on Handling the Optical Pick-Up Block or Base Unit	2
1.	**GENERAL**	
	Identifying the Parts	3
2.	**DISASSEMBLY**	4
3.	**ELECTRICAL CHECKS**	5
4.	**DIAGRAMS**	
4-1.	IC401 μPD75216 AGF-660 Pin Function	7
4-2.	Block Diagram	9
4-3.	BD Section Printed Wiring Boards and Schematic Diagram	11
4-4.	Main Section Printed Wiring Boards	14
4-5.	Main Section Schematic Diagram	17
5.	**EXPLODED VIEWS**	25
6.	**ELECTRICAL PARTS LIST**	29

MODEL IDENTIFICATION

– Model Number Label –



AEP, Germany model: AC 220 – 230 V ~50/60 Hz
UK model: AC 240 V ~50/60 Hz

*Can be identified MADE IN JAPAN with MADE IN FRANCE by the label model number, or the Back Panel.

	LABEL, MODEL NUMBER
MADE IN JAPAN	PRINTED
MADE IN FRANCE	SEALED

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

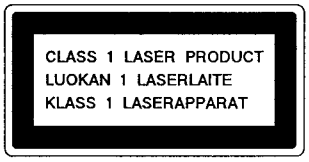
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 30 cm away from the objective lens.

For UK Model and AEP Model

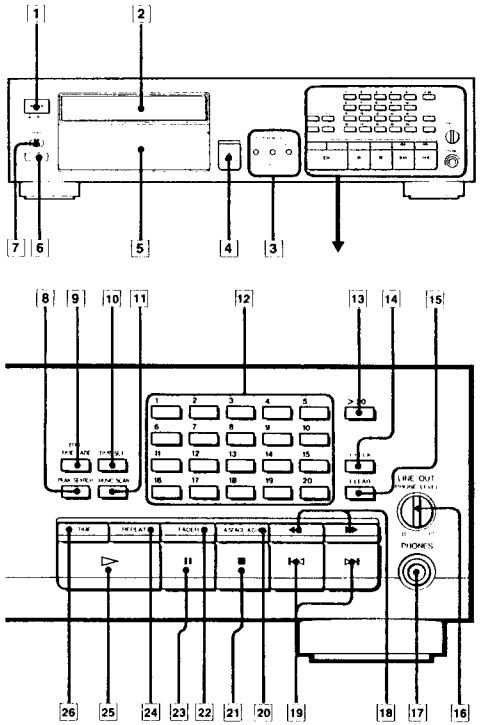


This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

Identifying the Parts

Refer to the pages indicated in parenthesis for details.

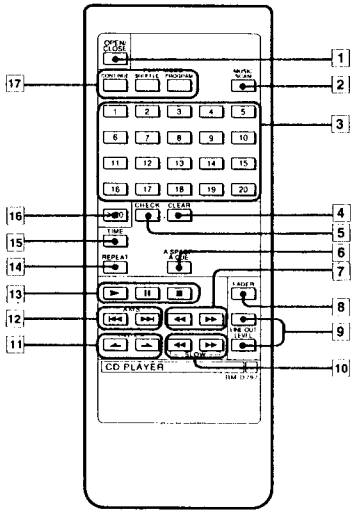
Front Panel



1 POWER switch (20)
2 Disc tray (20)
3 PLAY MODE buttons
CONTINUE button (30, 34, 38, 56)
SHUFFLE button (30, 34, 38, 56)
PROGRAM button (34, 48)
4 ⏏ OPEN/CLOSE button (20)
5 Display window (20)
6 Remote sensor (12)
7 TIMER switch (64)
8 PEAK SEARCH button (60)
9 EDIT/TIME FADE button (52, 58)
10 TIME SET button (54, 58)
11 MUSIC SCAN button (40)
12 Numeric buttons (24, 38, 48, 52)
13 >20 (over 20) button (24)
14 CHECK (program check) button (36)
15 CLEAR (program clear) button (36, 42)
16 LINE OUT/PHONE LEVEL control (14)
17 PHONES jack (20)
18 ◀◀/▶▶ (manual search) buttons (26, 46)
19 I◀◀/▶▶I (AMS*) buttons (24, 48)
21 ■ (stop) button (22)
20 A. SPACE/A. CUE button (28, 62)
23 II (pause) button (22)
22 FADER button (46)
24 REPEAT button (44)
25 ▶ (play) button (22)
26 TIME button (22)

* AMS is the abbreviation of Automatic Music Sensor.

Remote Commander

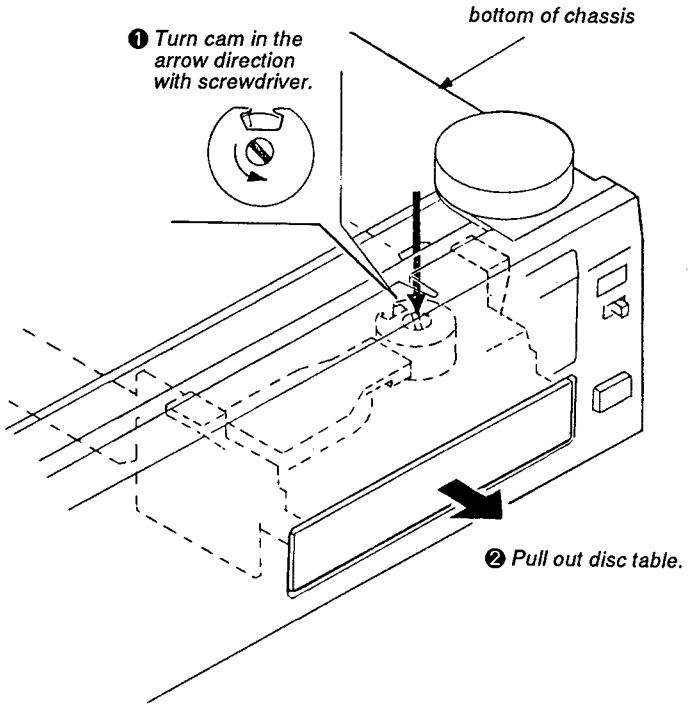


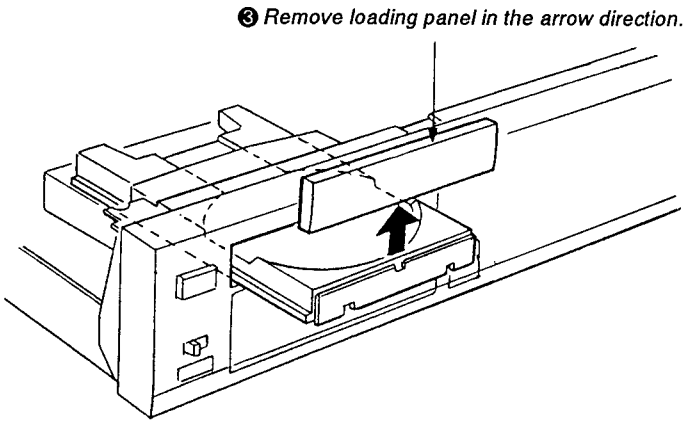
1 ⏏ OPEN/CLOSE button (20)
2 MUSIC SCAN button (40)
3 Numeric buttons (24, 38, 48, 52)
4 CLEAR (program clear) button (36, 42)
5 CHECK button (36)
6 A. SPACE/A. CUE button (28, 62)
7 ◀◀/▶▶ (manual search) buttons (26, 46)
8 FADER button (44)
9 LINE OUT LEVEL buttons (14) (line out/headphone level) buttons
10 ◀◀/▶▶ SLOW (low speed manual search) buttons (26)
11 ⟵ ⟶ INDEX buttons (26)
12 I◀◀/▶▶I (AMS*) buttons (24, 48)
13 ▶ (play) button (22)
II (pause) button (22)
■ (stop) button (22)
14 REPEAT button (44)
15 TIME button (22)
16 >20 (over 20) button (24)
17 PLAY MODE buttons
CONTINUE button (30, 34, 38, 56)
SHUFFLE button (30, 34, 38, 56)
PROGRAM button (34, 48)

* AMS is the abbreviation of Automatic Music Sensor.

SECTION 2
DISASSEMBLY

- When removing the front panel assembly on electric power failure, first open the loading block by turning cam with a screwdriver as shown in the figure, next pull out the loading block with hand, and remove the loading panel as shown in the figure. Then remove the front panel assembly.



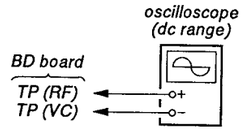


SECTION 3
ELECTRICAL CHECKS

1. Perform adjustments in the order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10 MΩ impedance.

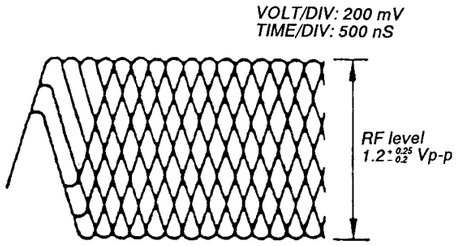
RF LEVEL Check

Procedure:



1. Connect oscilloscope to test point TP (RF) and TP (VC) on BD board.
2. Turn POWER switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that RF level and eye pattern is optimum.
   Optimum eye pattern means that shape "◇" can be clearly distinguished at the center of the waveform.

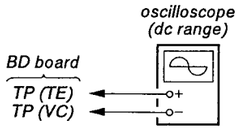
RF Signal Reference Waveform (eye pattern)



REFERENCE

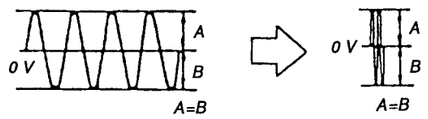
E-F Balance Check

Procedure:



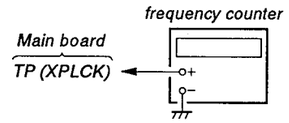
1. Connect test point TP (ADJ) to ground and TP (TEI) to VC with lead wires.
2. Connect oscilloscope to test point TP (TE).
3. Turn POWER switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0 V.
6. After check, remove the lead wires connected in step 1.

Note: Take sweep time as long as possible to obtain best waveform.



RF PLL Free-run Frequency Check

Procedure:



1. Turn POWER switch on.
2. Put disc (YEDS-18) in and playback.
3. Confirm that reading on frequency counter is 4.3218 MHz.

Focus/Tracking Gain Check

Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.
However, as these reciprocate, the microcomputer adjusts automatically at the point where both are satisfied.

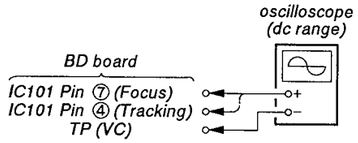
- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, mechanical shock and skipping occurs more easily.

When gain adjustment is off, the symptoms below appear.

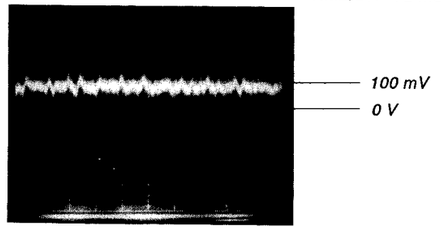
Symptoms \ Gain	Focus	Tracking
• The time until music starts becomes longer for STOP ➡ ▶ PLAY or automatic selection (⏮ , ⏭ buttons pressed). (Normally takes about 2 seconds.)	low	low or high
• Music does not start and disc continues to rotate for STOP ➡ ▶ PLAY or automatic selection (⏮ , ⏭ buttons pressed).	—	low
• Sound is interrupted during PLAY. Or time counter display stops progressing.	—	low
• Noise increases during 2-axis device operation.	high	high

Focus Gain Check

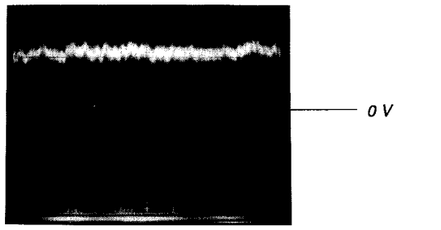
1. Keep the set horizontal.
   (If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2-axis device.)
2. Insert disc (YEDS-18: Fifth track) and press ▷ PLAY button.
3. Connect oscilloscope to Pin ⑦ of IC101 on BD board.
4. Confirm the waveform is as shown in the figure below.



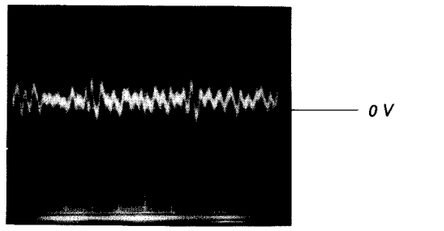
Normal



Focus gain is low.



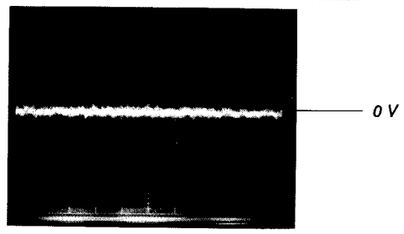
Focus gain is high.



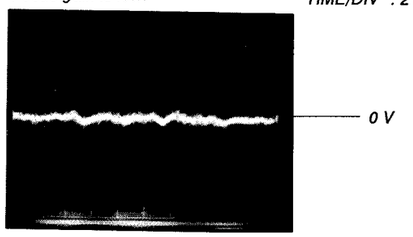
Tracking Gain Check

1. Connect oscilloscope to Pin ④ of IC101 on BD board.
2. Confirm the waveform is as shown the figure below.

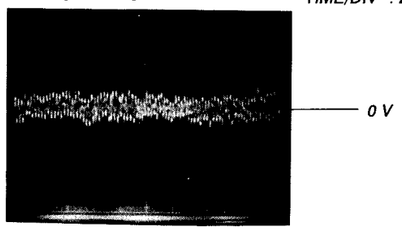
Normal



Focus gain is low.



Focus gain is high.



4-1. IC40

Pin No.	Pi
1	
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12	
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16	
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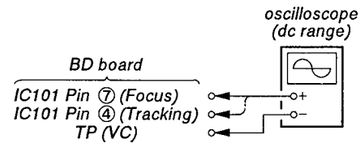
18	V
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	S
32	
33	D
34	TIM
35	S
36	C
37	
38	SI
39	A
40	

Focus Gain Check

1. Keep the set horizontal.
   (If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2-axis device.)
2. Insert disc (YEDS-18: Fifth track) and press ▷ PLAY button.
3. Connect oscilloscope to Pin ⑦ of IC101 on BD board.
4. Confirm the waveform is as shown in the figure below.

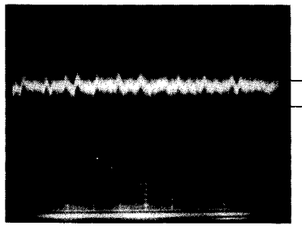
Tracking Gain Check

1. Connect oscilloscope to Pin ④ of IC101 on BD board.
2. Confirm the waveform is as shown the figure below.



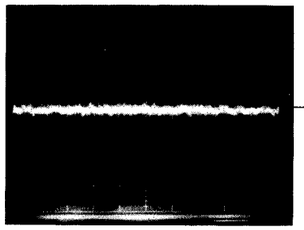
Normal

VOLT/DIV : 100 mV
TIME/DIV : 2 mS



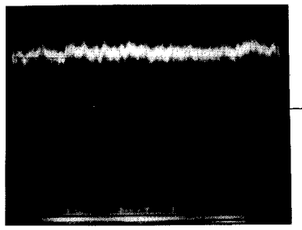
Normal

VOLT/DIV : 500 mV
TIME/DIV : 2 mS



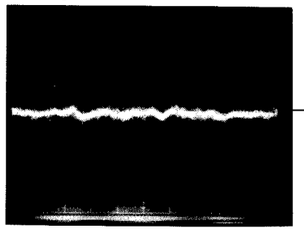
Focus gain is low.

VOLT/DIV : 100 mV
TIME/DIV : 2 mS



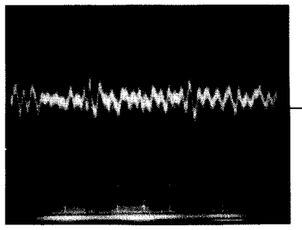
Focus gain is low.

VOLT/DIV : 500 mV
TIME/DIV : 2 mS



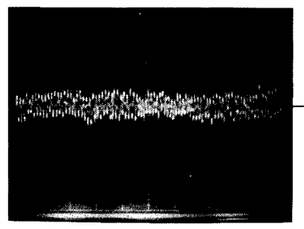
Focus gain is high.

VOLT/DIV : 100 mV
TIME/DIV : 2 mS



Focus gain is high.

VOLT/DIV : 500 mV
TIME/DIV : 2 mS

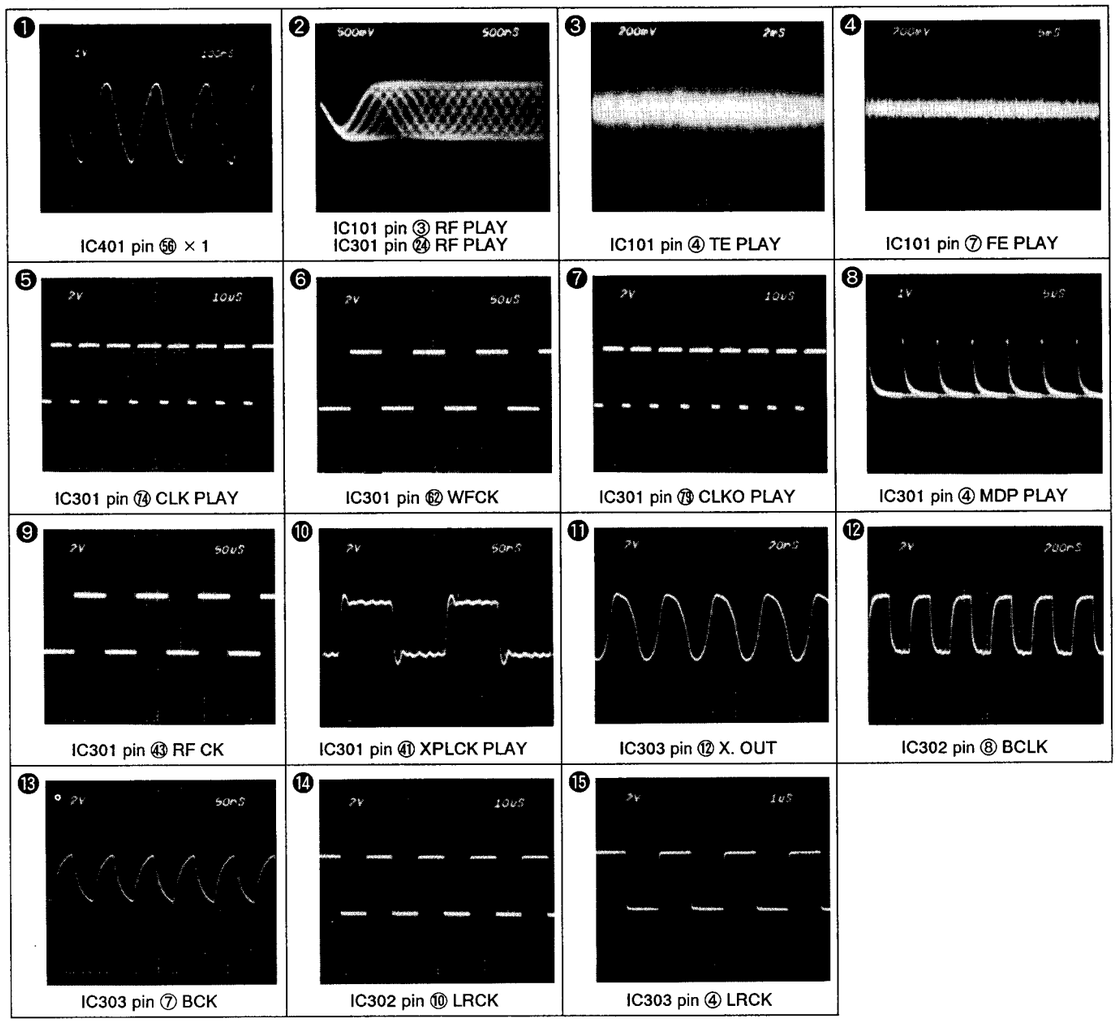


SECTION 4
DIAGRAMS

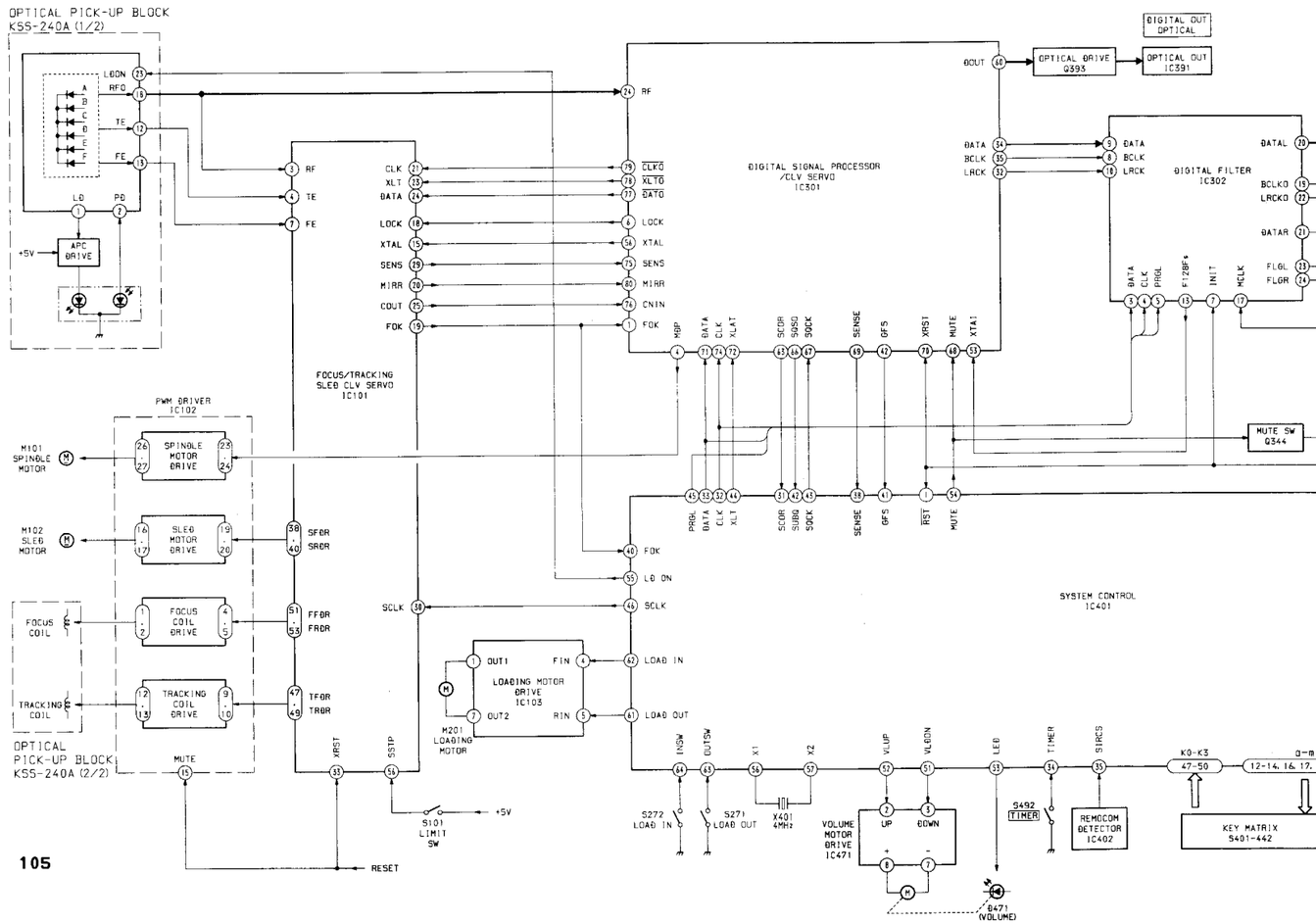
4-1. IC401 μPD75216 AGF-660 PIN FUNCTION

Pin No.	Pin Name	I/O	Description
1	$\overline{RST}$	I	RESET input
2	1G	O	Display grid 1G
3	2G	O	Display grid 2G
4	3G	O	Display grid 3G
5	4G	O	Display grid 4G
6	5G	O	Display grid 5G
7	6G	O	Display grid 6G
8	7G	O	Display grid 7G
9	8G	O	Display grid 8G
10	–	–	
11	–	–	
12	a	O	Display segment a
13	b	O	Display segment b
14	c	O	Display segment c
15	–	–	
16	d	O	Display segment d
17	e	O	Display segment e
18	VLOAD	I	–30 V, Display grid, segment low voltage
19	VPRE	I	Display grid, segment voltage supply
20	f	O	Display segment f
21	g	O	Display segment g
22	h	O	Display segment h
23	i	O	Display segment i
24	j	O	Display segment j
25	–	–	
26	V_{DD}	I	5 V
27	k	O	Display segment k
28	l	O	Display segment l
29	m	O	Display segment m
30	–	–	
31	SCOR	I	SUB-Q sync input
32	CLK	O	SSP, DSP, D/F data clock
33	DATA	O	SSP, DSP, D/F data
34	TIMERSW	I	Timer start switch
35	SIRCS	I	Remote commander input
36	GND	I	0 V
37	ADJ	I	ADJ mode terminal
38	SENSE	I	SSP, DSP sense input
39	AFADJ	I	AF ADJ mode terminal
40	FOK	I	FOK input
41	GFS	I	GFS input
42	SUBQ	I	SUB-Q serial data
43	SQCLK	O	SUB-Q read clock
44	XLT	O	SSP, DSP data latch pulse
45	PRGL	O	D/F data latch pulse
46	SCLK	O	SSP data read clock
47	K0	I	Key scan 0
48	K1	I	Key scan 1
49	K2	I	Key scan 2
50	K3	I	Key scan 3
51	RV+	O	Remote commander Volume +
52	RV –	O	Remote commander Volume –
53	RVLED	O	Remote commander Volume LED
54	AMUTE	O	Audio mute out
55	LDON	O	Laser ON/OFF
56	X1	–	Main system clock connection
57	X2	–	Main system clock connection
58	Vss	I	0 V
59	GND	I	0 V
60	–	–	
61	LDOUT	O	Loading out output
62	LDIN	O	Loading in output
63	$\overline{OUTSW}$	I	Loading out switch
64	$\overline{INSW}$	I	Loading in switch

• Waveforms

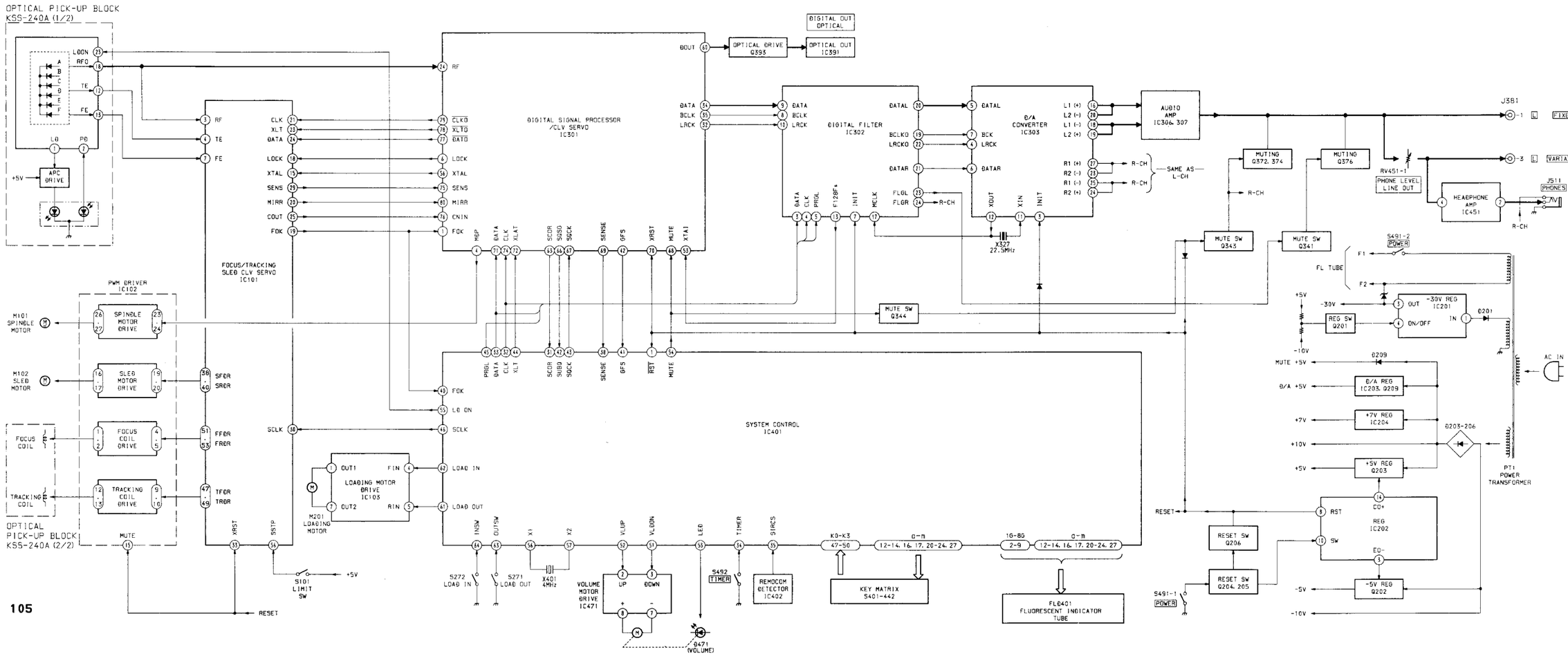


4-2. BLOCK DIAGRAM



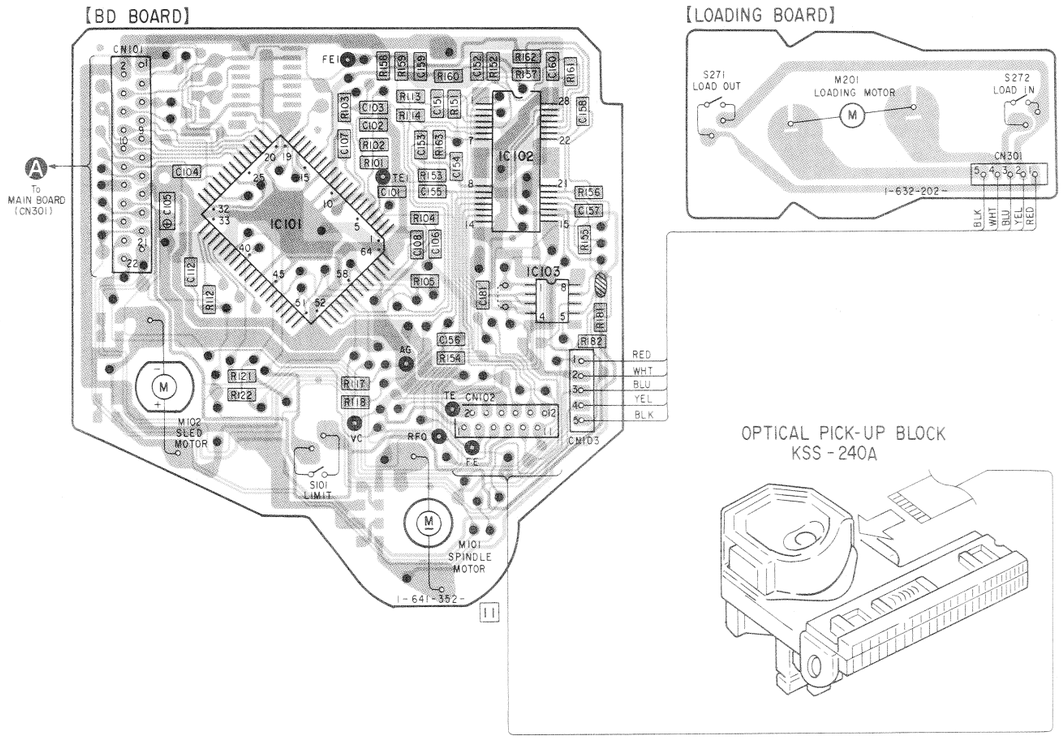
105

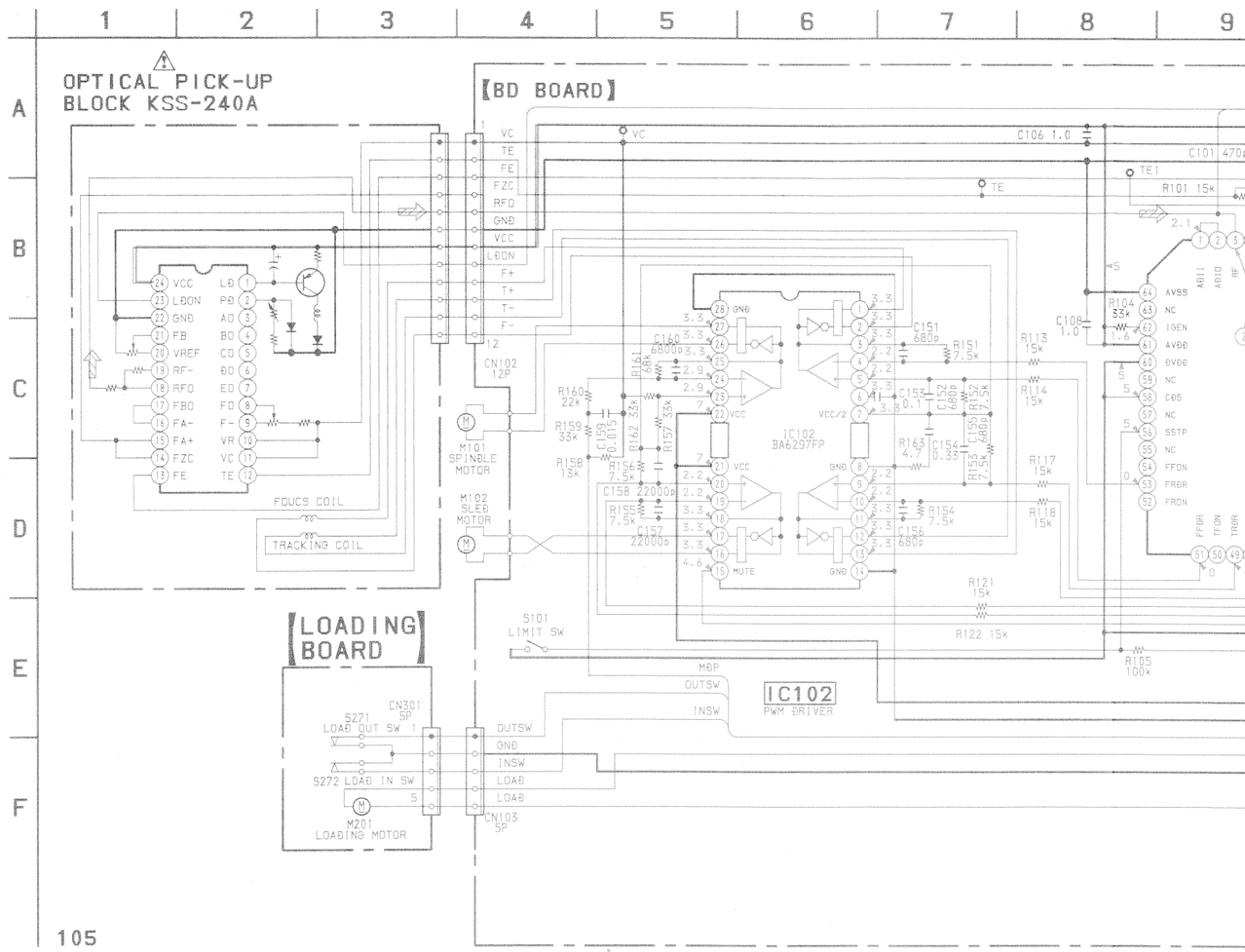
4-2. BLOCK DIAGRAM



105

4-3. BD SECTION PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAM





105

Note on Schematic Diagram:

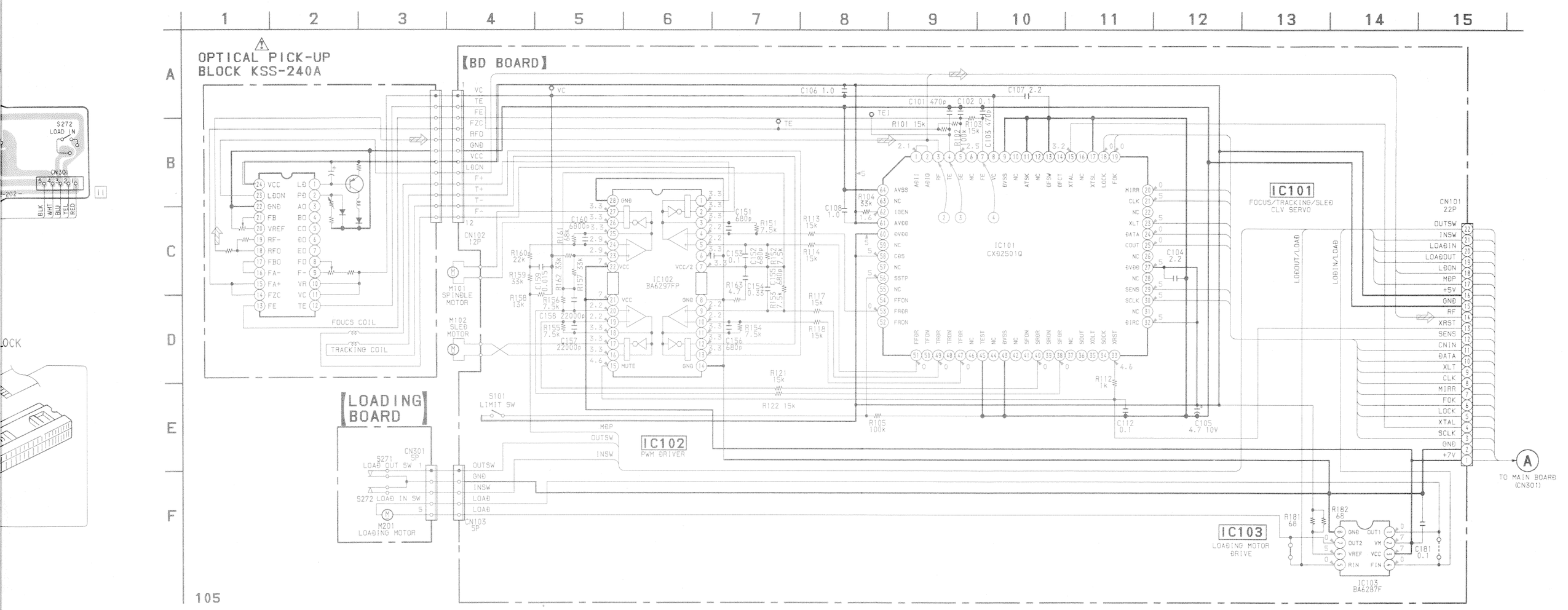
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬▬ : B + Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10 MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to wavefroms.
- Signal path.
  ⇨ : CD

Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ● : Through hole.
- ▒▒▒ : Pattern on the side which is seen.
- ▒▒▒ : Pattern of the rear side.


OPTICAL PICK-UP
BLOCK KSS-240A
【BD BOARD】
【LOADING BOARD】
IC101
FOCUS/TRACKING/SLED
CLV SERVO
IC102
PWM DRIVER
IC103
LOADING MOTOR
DRIVE
CN101
22P
CN102
12P
CN103
5P
CN301
5P
S101
LIMIT SW
S271
LOAD OUT SW
S272
LOAD IN SW
M101
SPINDLE
MOTOR
M102
SLED
MOTOR
M201
LOADING MOTOR
FOCUS COIL
TRACKING COIL
IC101
CXD2501Q
IC102
BA6297FP
IC103
BA6287F
TO MAIN BOARD
(CN301)
LOBOUT/LOAD
LOBIN/LOAD
105

4-4. MAIN SECTION PRINTED WIRING BOARDS

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- △ : internal component.

> Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
> Replace only with part number specified.

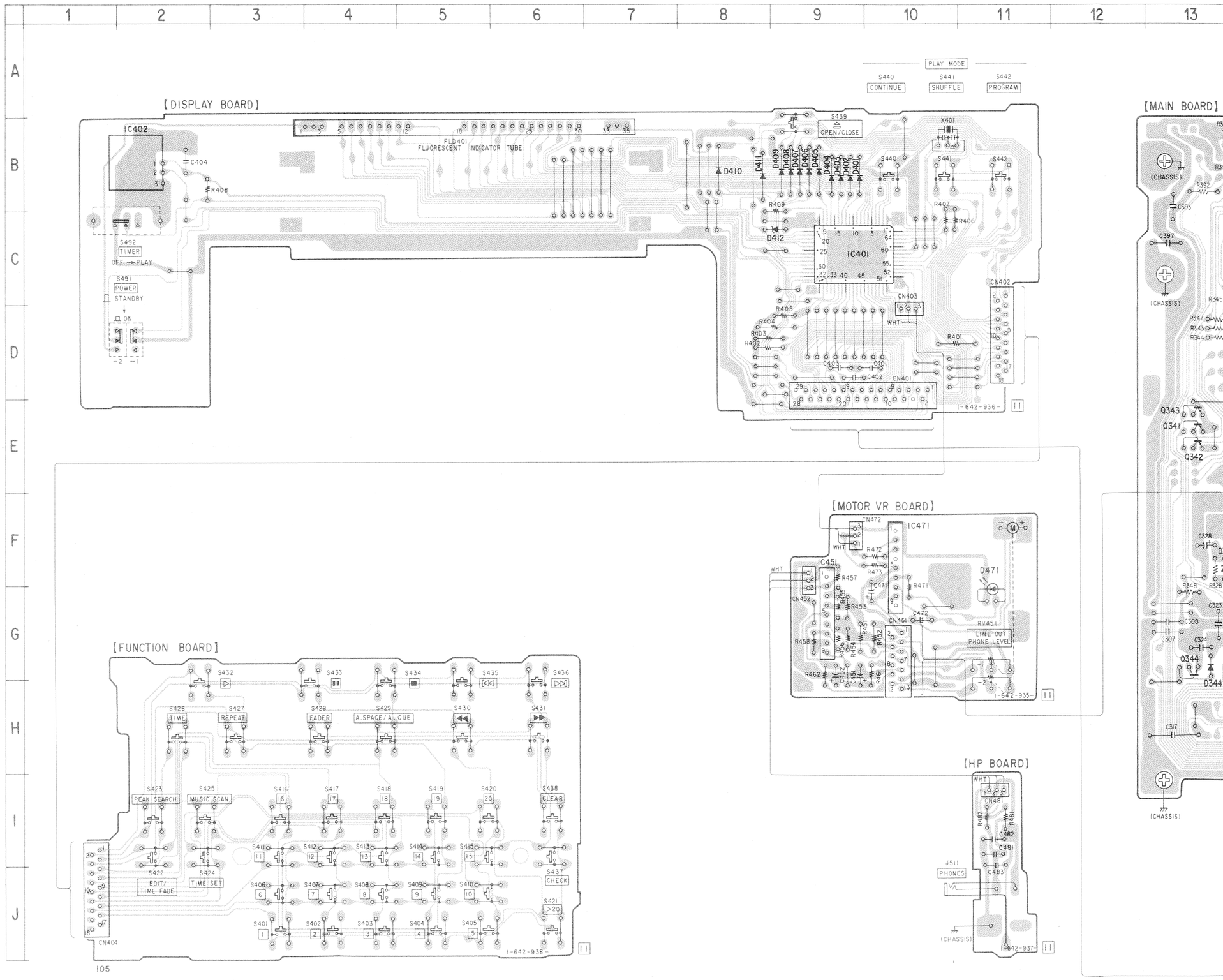
- ▬▬ : B + Line.
- ▬ ▬ : B − Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to wavefroms.
- Signal path.
  ⇨ : CD
  ⇛ : digital out

Note on Printed Wiring Board:

- o——— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D201	E-19	IC302	G-14
D202	F-19	IC303	F-14
D203	E-18	IC306	D-14
D204	E-18	IC307	C-14
D205	E-17	IC391	A-14
D206	E-17	IC401	C-9
D208	E-16	IC402	B-2
D209	E-17	IC451	F-9
D328	F-13	IC471	F-10
D344	H-13		
D401	B-9	Q201	E-18
D402	B-9	Q202	G-18
D403	B-9	Q203	F-18
D404	B-9	Q204	G-18
D405	B-9	Q205	G-18
D406	B-9	Q206	G-18
D407	B-9	Q209	F-16
D408	B-9	Q341	E-13
D409	B-9	Q342	E-13
D410	B-8	Q343	E-13
D411	B-8	Q344	G-13
D412	C-9	Q371	B-14
D471	F-11	Q372	C-16
		Q373	B-14
IC201	F-18	Q374	C-16
IC202	G-17	Q375	B-14
IC203	G-16	Q376	B-16
IC204	F-18	Q393	B-14
IC301	I-17		



3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19

PLAY MODE
S440 CONTINUE
S441 SHUFFLE
S442 PROGRAM

FLD401 FLUORESCENT INDICATOR TUBE
S439 OPEN/CLOSE
X401
D410 D411 D409 D408 D407 D406 D405 D404 D403 D402 D401
S440 S441 S442
R409 R407 R406 D412
IC401
CN402 CN403 CN401
R405 R404 R403 R402 R401
C403 C402 C401
WHT
1-642-936-

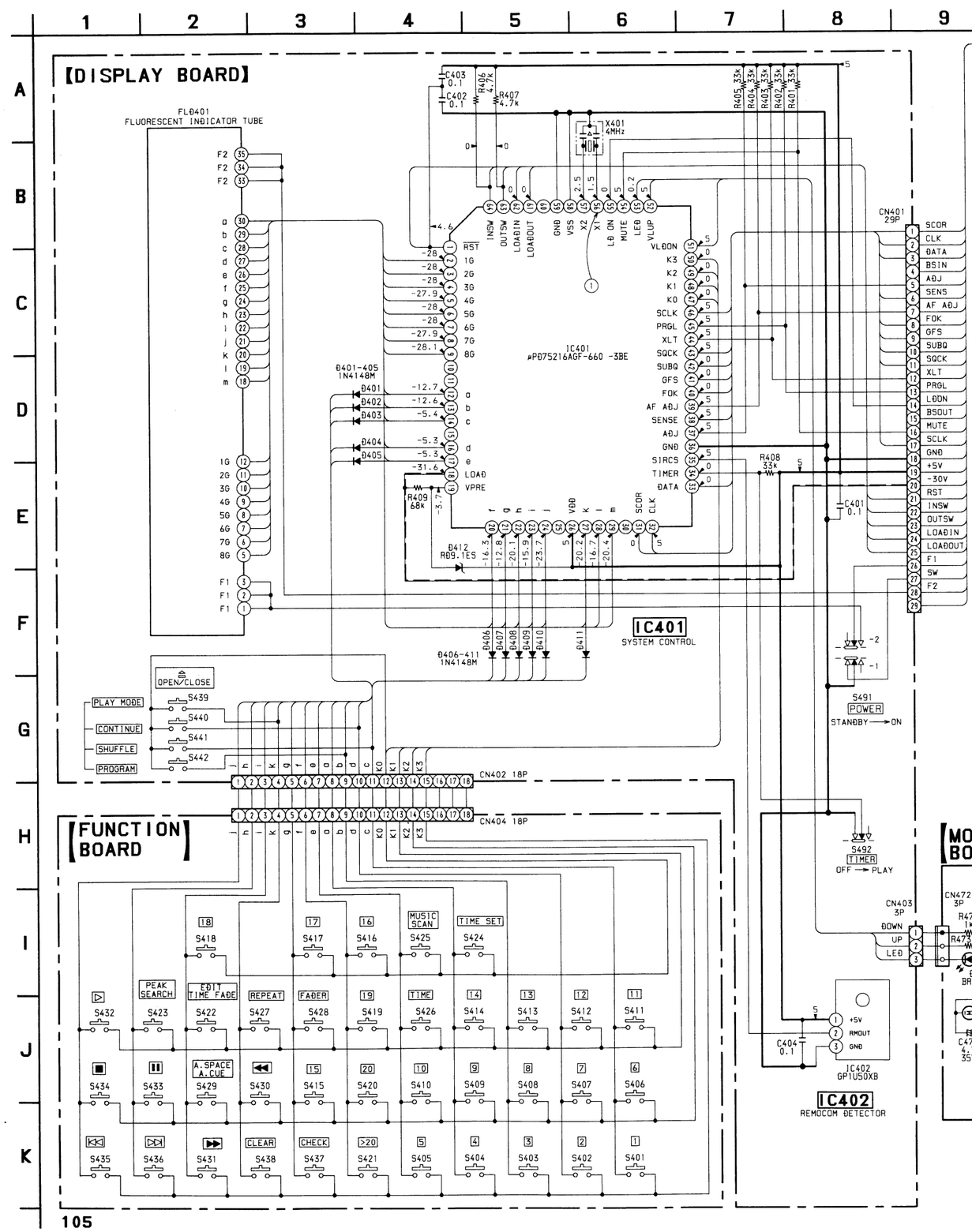
S433 S434 S435 S436
S428 FADER
S429 A.SPACE/A.CUE
S430 S431
S416 S417 S418 S419 S420 S438 CLEAR
S411 S412 S413 S414 S415
S406 S407 S408 S409 S410 S437 CHECK
S401 S402 S403 S404 S405 S421 >20
1-642-938-

【MOTOR VR BOARD】
CN472 IC471
WHT R472 R473
IC451 CN452 R457 R453 R458 R462 R454 R452 R461 R471 C472 C471 C451 C452 C453
D471
CN451
RV451 LINE OUT PHONE LEVEL
1-642-935-

【HP BOARD】
WHT CN481 R482 R481 C482 C481 C483
J511 PHONES
(CHASSIS)
1-642-937-

【MAIN BOARD】
IC391 DIGITAL OUT OPTICAL
J381 LINE OUT FIXED VARIABLE L R
R394 C380 C391 Q393 R381 R393 R389 R390 C379 Q376 R384 R386 R382 Q374 R376 R378 Q372
(CHASSIS) R362 C395 C397 Q375 R379 R380 Q371 R375 R373 C377 R377 R346 R374 C378 R383 C393
IC307 C371 C372 R372 C373 C374 R369 C368 C367 R370 R345 R347 R343 R344
IC306 R365 C363 R367 R360 C360 R363 C364 R366 R368 R364 C366 R362 C365 C361 R362 R354 R352 R351 R356 R356 R358 C358 C362 C357 R353 R334 R333 R332 R331 C354 C355
Q343 Q341 Q342
CN381 C221 C211 D205 D203 D201 D208 D209 D206 D204 Q201 C201 C204 C203 R209 R202 R201
IC303 C326 C325 C356 C351 C352 C328 C329 C332 C327 R327 R328 R332 R323 R329 R322 R326 R321 R325 C321 C323 C331 C308 C307 C324 C322 C333 C305 C306 R324 D328 D344 Q344
IC302 C316 R316 C314 R314 R317 R315 R318 C315 C309 C317 R208 R309 C319 C320 R312 C318 C310 R313 R311 C311 R310 R307 R306 L306 L305 C301 C302 R305 R301 R302 R303 R304 C303 C304
IC204 IN GND OUT C202 R203 R204 Q202 Q206 CN301 R205 Q205 C214 Q204 R206 C207 C206 C209 Q203 R213 R211 R210 Q209 C213 IC203 C208 C205 IC202 IC201 D202
(RFCK) (XPLCK) (DG) (MNT2) (MNT3) (MNT1) (MNT0) (WFCK) (MUTE) (RFO) (RFI) (MDP) (AF) (ADJ) CN302
IC301
CN201 AC IN
PT1 POWER TRANSFORMER
(CHASSIS)
A To BD BOARD (CN101)
1-641-496-

4-5. MAIN SECTION SCHEMATIC DIAGRAM



105

【MAIN BOARD】

CN301 22P

CN302 29P

IC301 CXD2500AQ
DIGITAL SIGNAL PROCESSOR /CLV SERVO

IC302 CXD2560M
DIGITAL FILTER

IC303 CXD2561AM-1
D/A CONVERTER

IC306 AUDIO AMP

IC307 AUDIO AMP

IC203 D/A REG

IC204 +7V REG

IC201 -30V REG

IC202 REG

Q209 2SC1815 D/A REG

Q202 2SD774-T-34 -5V REG

Q203 2SB1274-RS +5V REG

Q204 2SA1345 RESET SW

Q205 2SC3399

Q206 2SC3399

Q201 2SA1048 REG SW

Q341, 342 MUTE SW

Q343 2SA1345 MUTE SW

Q344 2SC3399 MUTE SW

PT1 POWER TRANSFORMER

CN201 2P

AC IN

* NOT REPLACEABLE :BUILT IN TRANSFORMER

BOARD】

IC302 ÐIGITAL FILTER
IC303 Ð/A CONVERTER
IC306 AUÐIO AMP
IC307 AUÐIO AMP
IC203 Ð/A REG
IC202 REG
IC204 +7V REG
IC201 -30V REG
IC391 OPTICAL OUT

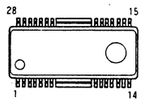
【MOTOR VR BOARD (2/2)】
IC451 HEAÐPHONE AMP
【HP BOARD】

J381 LINE OUT (FIXED / VARIABLE)
J511 PHONES
CN381 13P
CN451 (2/2)
CN452 3P
CN481 3P
CN201 2P
RV451 LINE OUT PHONE LEVEL
ÐIGITAL OUT OPTICAL
PT1 POWER TRANSFORMER
AC IN
* NOT REPLACEABLE :BUILT IN TRANSFORMER

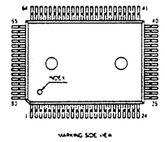
• Semiconductor Lead Layouts

BA6208
RC4566S

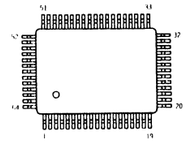
BA6297AFP



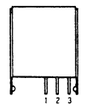
CXD2500AQ



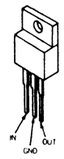
CXD2501Q
μPD75216AGF-660-3BE



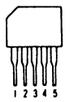
GP1U50XB



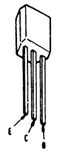
M5F7807



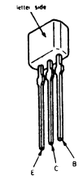
M5293L



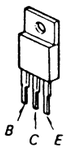
DTA144ES
2SC1815Y



DTC144ES
2SA1175-HFE
2SC3623A-LK



2SB1094-LK



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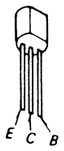
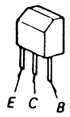
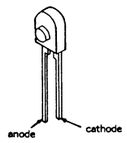


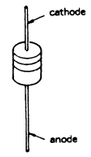
2SD774-34



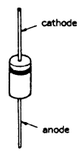
BR4361F



MTZJ-T-77-7.5
MTZJ-T-77-9.1
RD5.6ES-B2
RD7.5ES-B2
RD9.1ES-L
WG713A
11ES2

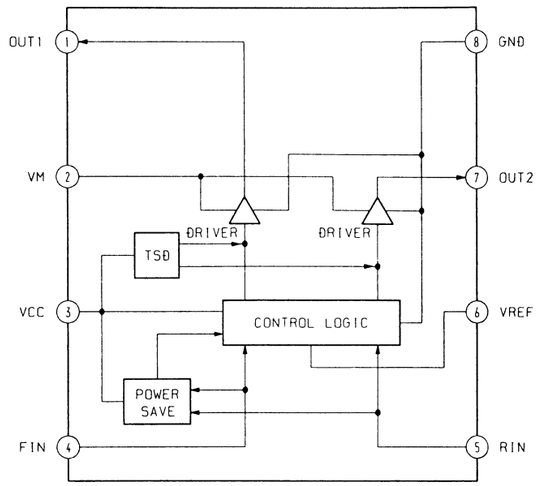


1N4148M

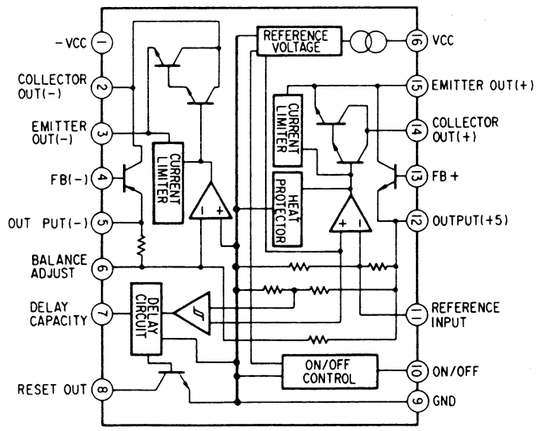


• IC Block Diagrams

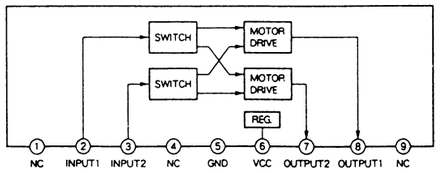
IC103 BA6287F



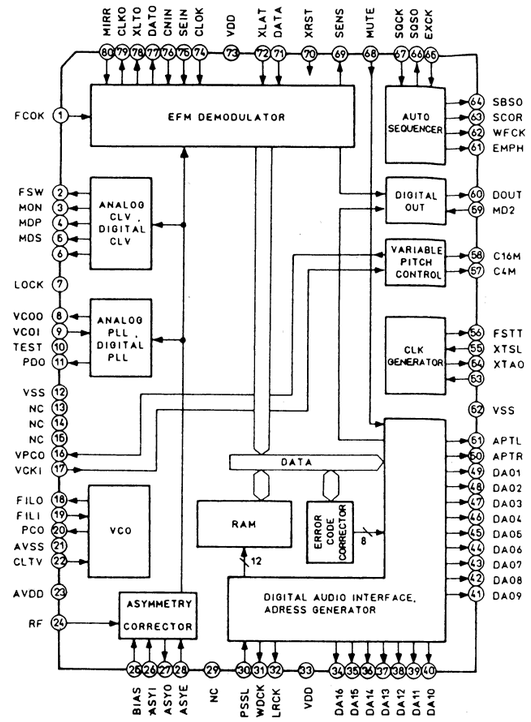
IC202 M5290P-16



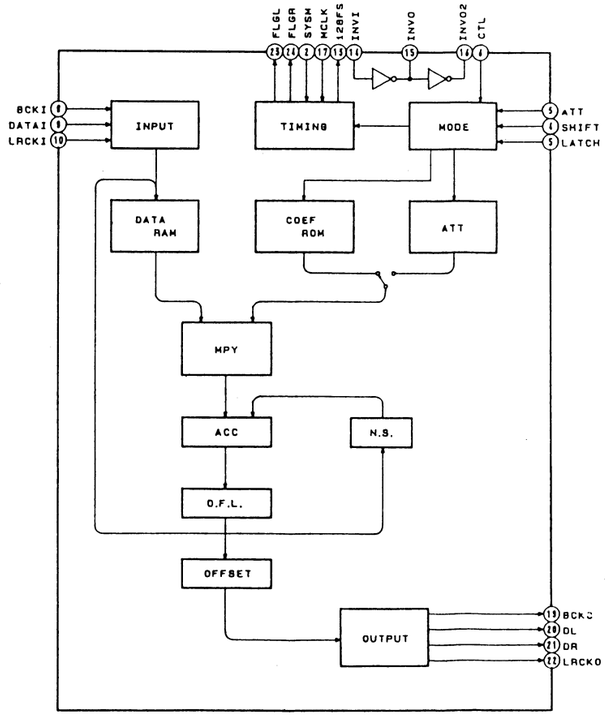
IC471 BA6208



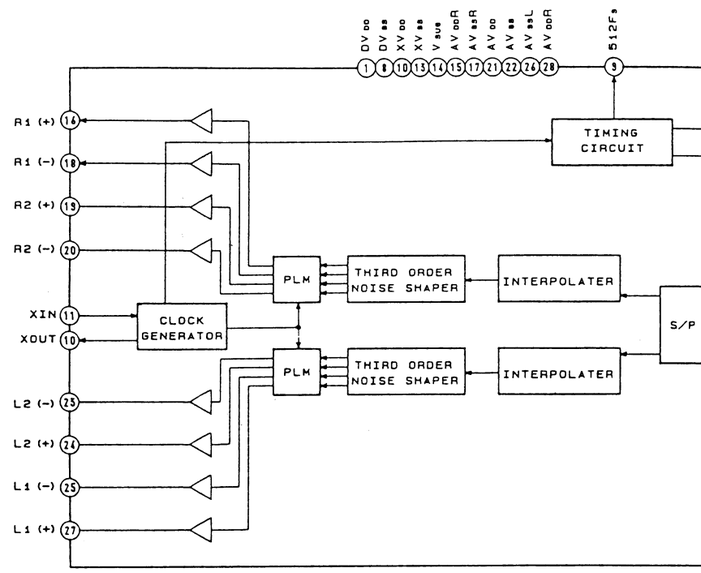
IC301 CXD2500AQ



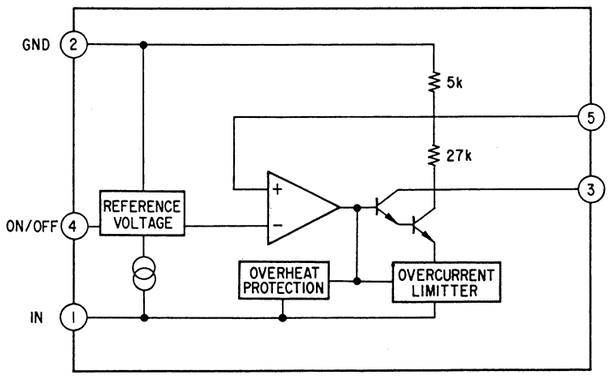
IC302 CXD2560M



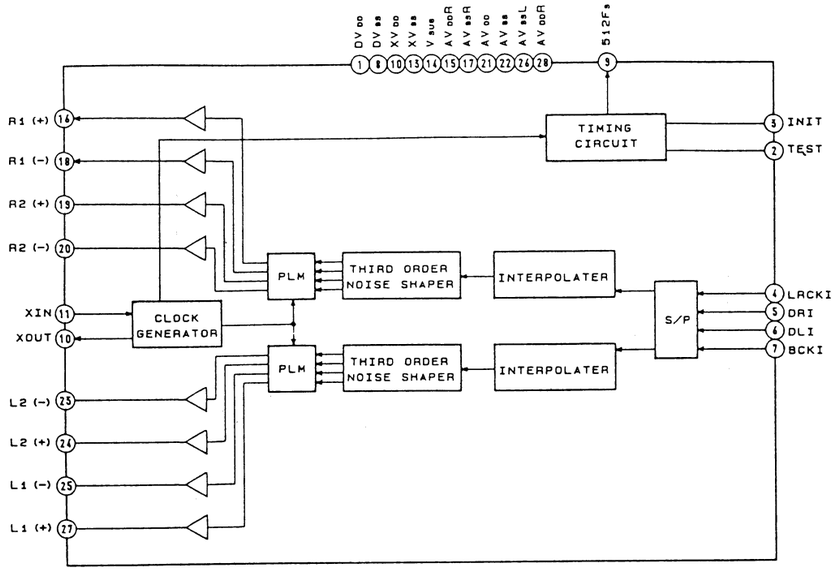
IC303 CXD2561AM-1



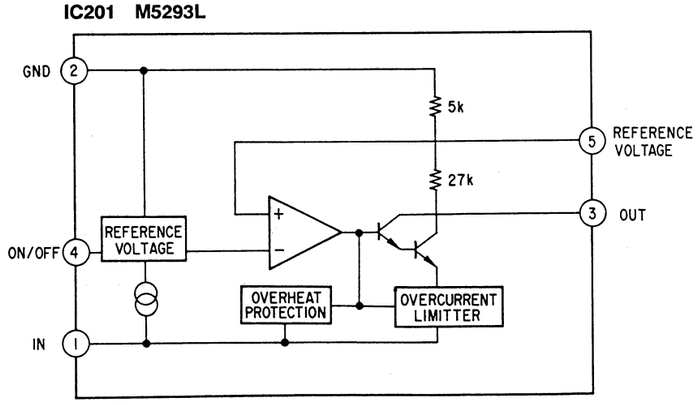
IC201 M5293L



IC303 CXD2561AM-1



IC201 M5293L



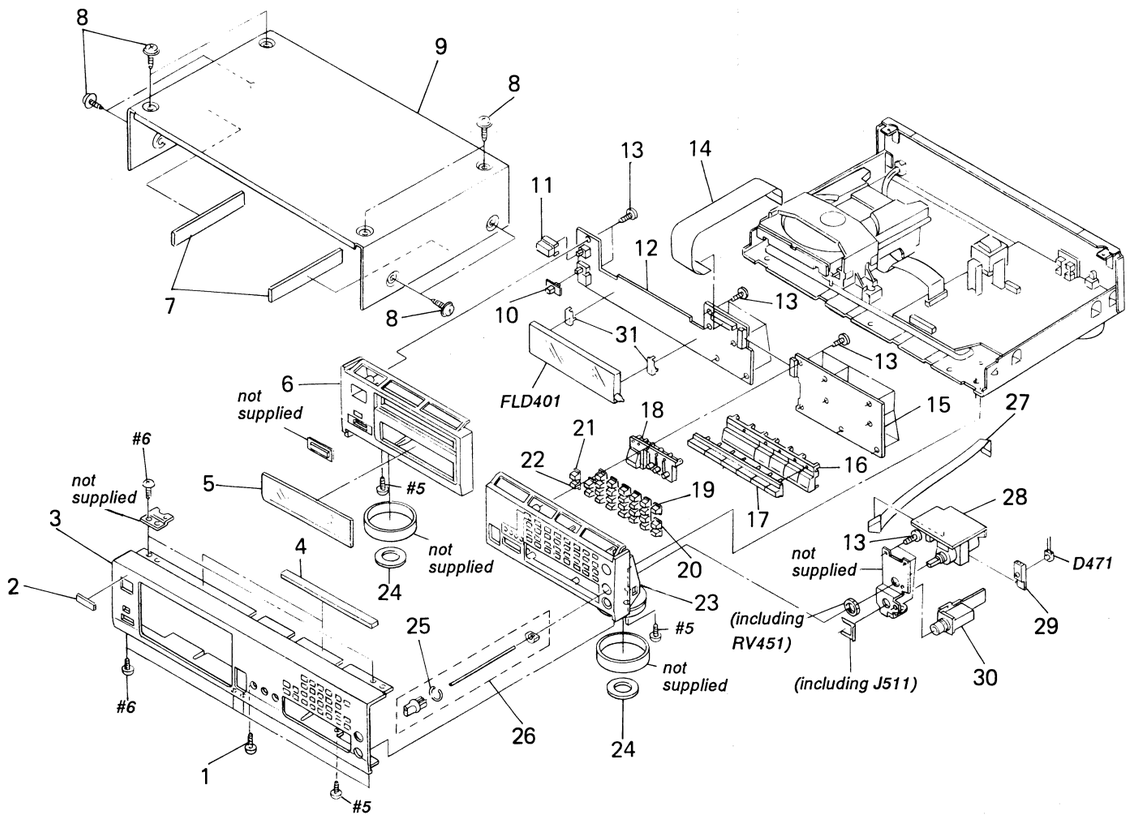
SECTION 5
EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

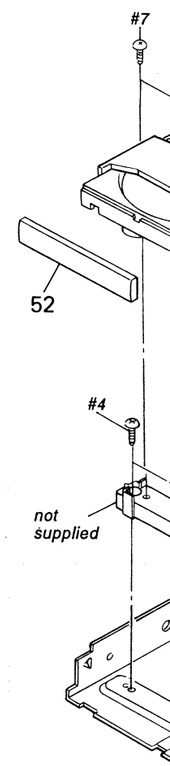
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

(1) FRONT PANEL ASS'Y AND CASE SECTION



Ref. No.	Part No.	Description	Remark
1	3-703-685-21	SCREW (+BV 3X8)	
2	4-908-848-01	EMBLEM, SONY	
3	4-949-195-21	PANEL (FRONT)	
* 4	4-929-557-01	CUSHION (PANEL)	
5	4-949-244-01	PLATE, INDICATION	
6	X-4942-163-1	PANEL (BASE) (L) ASSY	
* 7	4-929-561-01	CUSHION (CASE)	
8	3-704-366-01	SCREW (CASE) (M3X8) (MADE IN JAPAN)	
8	3-363-099-01	SCREW (CASE +3X8 TP2) (MADE IN FRANCE)	
9	4-929-529-01	CASE	
10	4-922-518-11	KNOB (TIMER)	
11	4-947-034-03	BUTTON (POWER)	
* 12	A-4649-245-A	DISP BOARD, COMPLETE	
13	4-951-620-01	SCREW (2.6X8), +BVTP	
14	1-690-782-11	WIRE (FLAT TYPE) (29 CORE)	
* 15	1-642-938-21	FUNCTION BOARD	
16	4-949-243-01	BUTTON (L)	
17	4-947-582-21	BUTTON (S)	
18	4-949-191-01	BUTTON (O/C)	
19	4-947-574-11	BUTTON (MC1)	
20	4-947-575-11	BUTTON (MC2)	
21	4-947-576-11	BUTTON (MC3)	
22	4-947-577-11	BUTTON (MC4)	
23	X-4941-940-1	PANEL (BASE) (R) ASSY	
24	4-923-836-11	CUSHION	
25	4-948-469-01	SPRING, RING	
26	A-4660-110-A	KNOB (HP) ASSY	
27	1-690-392-11	WIRE, FLAT TYPE (13 CORE)	
* 28	1-642-935-21	MOTOR VR BOARD	
* 29	4-922-980-01	HOLDER (LED)	
* 30	1-642-937-21	HP BOARD	
* 31	4-947-170-01	HOLDER	
D471	8-719-970-49	DIODE BR4361F	
FLD401	1-519-681-11	INDICATOR TUBE, FLUORESCENT	

(2) CHASSIS SECTION



Ref. No.	Part No.	Descript
* 51	4-924-098-01	HOLDER,
52	4-947-167-01	PANEL,
53	1-575-002-11	WIRE, F
* 54	4-941-237-01	HEAT SI
55	4-886-821-11	SCREW,
* 56	4-942-050-21	PANEL,
* 56	4-949-176-81	PANEL,

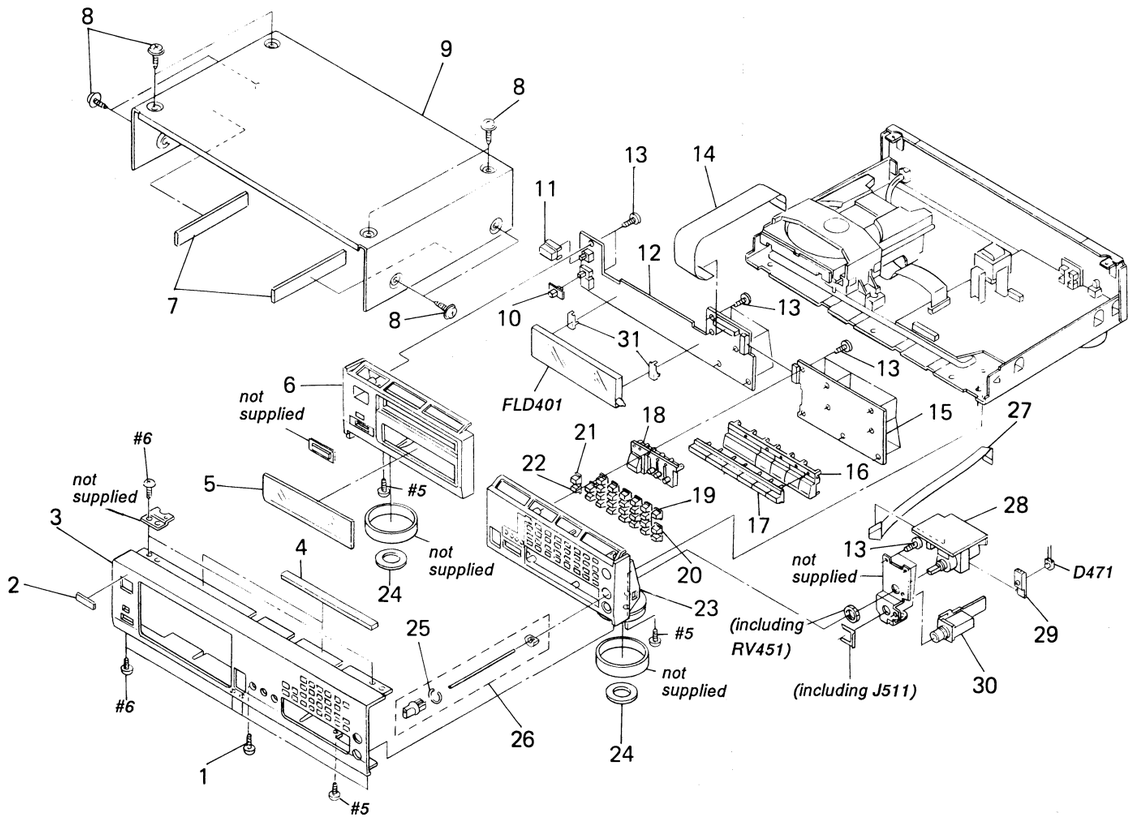
SECTION 5
EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

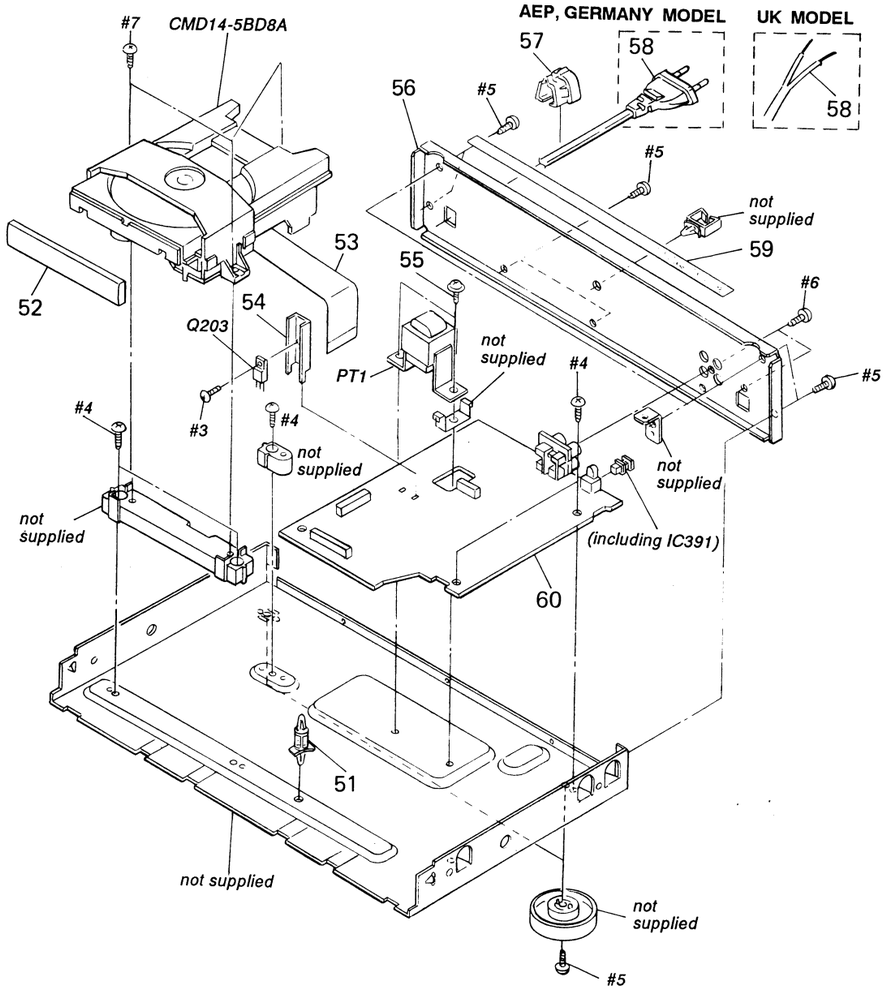
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

(1) FRONT PANEL ASS'Y AND CASE SECTION



Ref. No.	Part No.	Description	Remark
1	3-703-685-21	SCREW (+BV 3X8)	
2	4-908-848-01	EMBLEM, SONY	
3	4-949-195-21	PANEL (FRONT)	
* 4	4-929-557-01	CUSHION (PANEL)	
5	4-949-244-01	PLATE, INDICATION	
6	X-4942-163-1	PANEL (BASE) (L) ASSY	
* 7	4-929-561-01	CUSHION (CASE)	
8	3-704-366-01	SCREW (CASE) (M3X8) (MADE IN JAPAN)	
8	3-363-099-01	SCREW (CASE +3X8 TP2) (MADE IN FRANCE)	
9	4-929-529-01	CASE	
10	4-922-518-11	KNOB (TIMER)	
11	4-947-034-03	BUTTON (POWER)	
* 12	A-4649-245-A	DISP BOARD, COMPLETE	
13	4-951-620-01	SCREW (2.6X8), +BVTP	
14	1-690-782-11	WIRE (FLAT TYPE) (29 CORE)	
* 15	1-642-938-21	FUNCTION BOARD	
16	4-949-243-01	BUTTON (L)	
17	4-947-582-21	BUTTON (S)	
18	4-949-191-01	BUTTON (O/C)	
19	4-947-574-11	BUTTON (MC1)	
20	4-947-575-11	BUTTON (MC2)	
21	4-947-576-11	BUTTON (MC3)	
22	4-947-577-11	BUTTON (MC4)	
23	X-4941-940-1	PANEL (BASE) (R) ASSY	
24	4-923-836-11	CUSHION	
25	4-948-469-01	SPRING, RING	
26	A-4660-110-A	KNOB (HP) ASSY	
27	1-690-392-11	WIRE, FLAT TYPE (13 CORE)	
* 28	1-642-935-21	MOTOR VR BOARD	
* 29	4-922-980-01	HOLDER (LED)	
* 30	1-642-937-21	HP BOARD	
* 31	4-947-170-01	HOLDER	
D471	8-719-970-49	DIODE BR4361F	
FLD401	1-519-681-11	INDICATOR TUBE, FLUORESCENT	

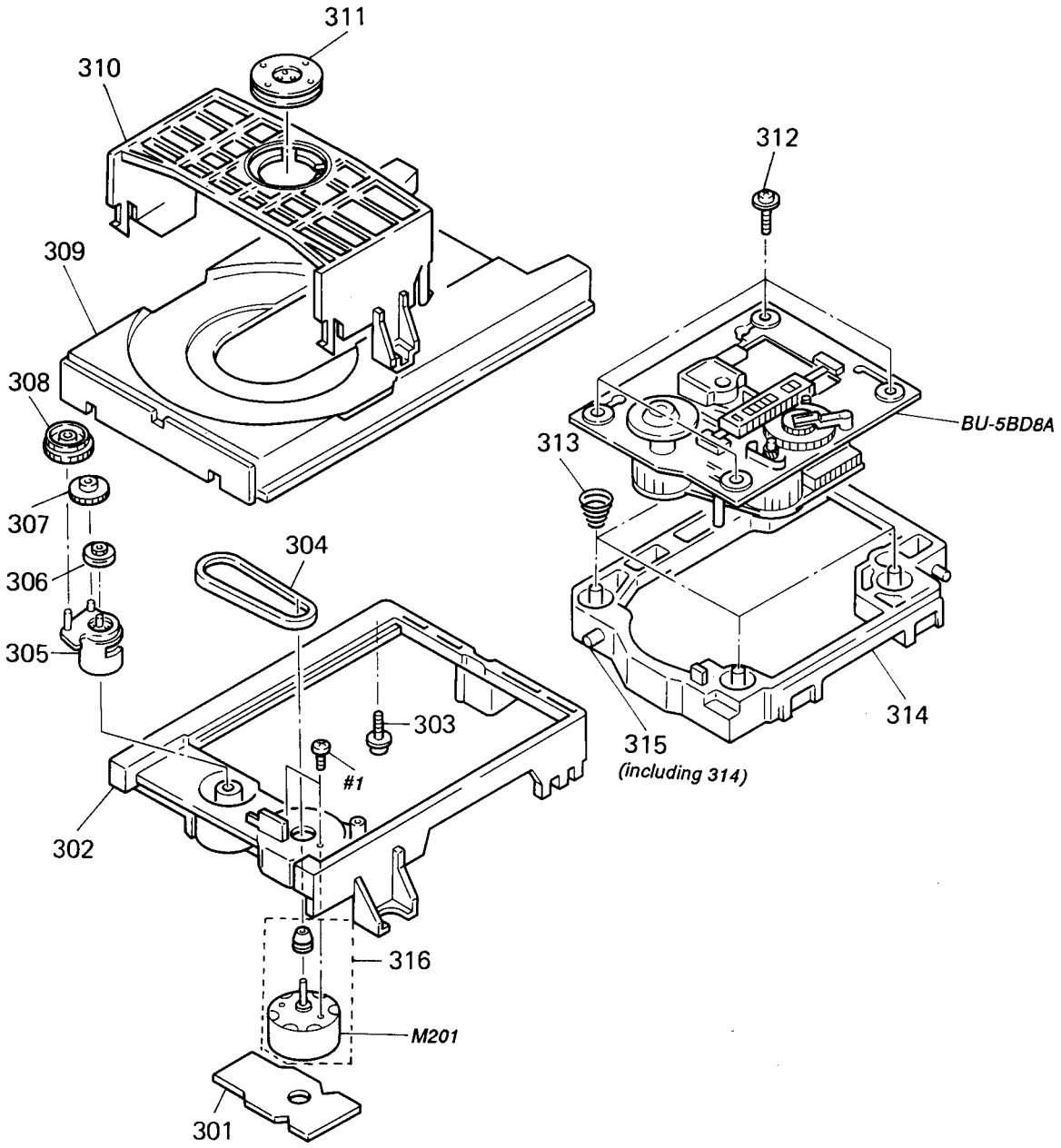
(2) CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
* 51	4-924-098-01	HOLDER, PC BOARD	
52	4-947-167-01	PANEL, LOADING	
53	1-575-002-11	WIRE, FLAT TYPE (22 CORE)	
* 54	4-941-237-01	HEAT SINK	
55	4-886-821-11	SCREW, S TIGHT, +PTTWH 3X6	
* 56	4-942-050-21	PANEL, BACK (MADE IN FRANCE)	
* 56	4-949-176-81	PANEL, BACK (MADE IN JAPAN)	
* 57	3-703-244-00	BUSHING (2104), CORD	
⚠58	1-558-946-21	CORD, POWER (UK)	
⚠58	1-575-651-21	CORD, POWER (AEP)	
* 59	4-927-653-01	SHEET (F/P)	
* 60	A-4649-277-A	MAIN BOARD, COMPLETE	
⚠PT1	1-449-922-11	TRANSFORMER, POWER	
Q203	8-729-141-83	TRANSISTOR 2SB1094-LK	

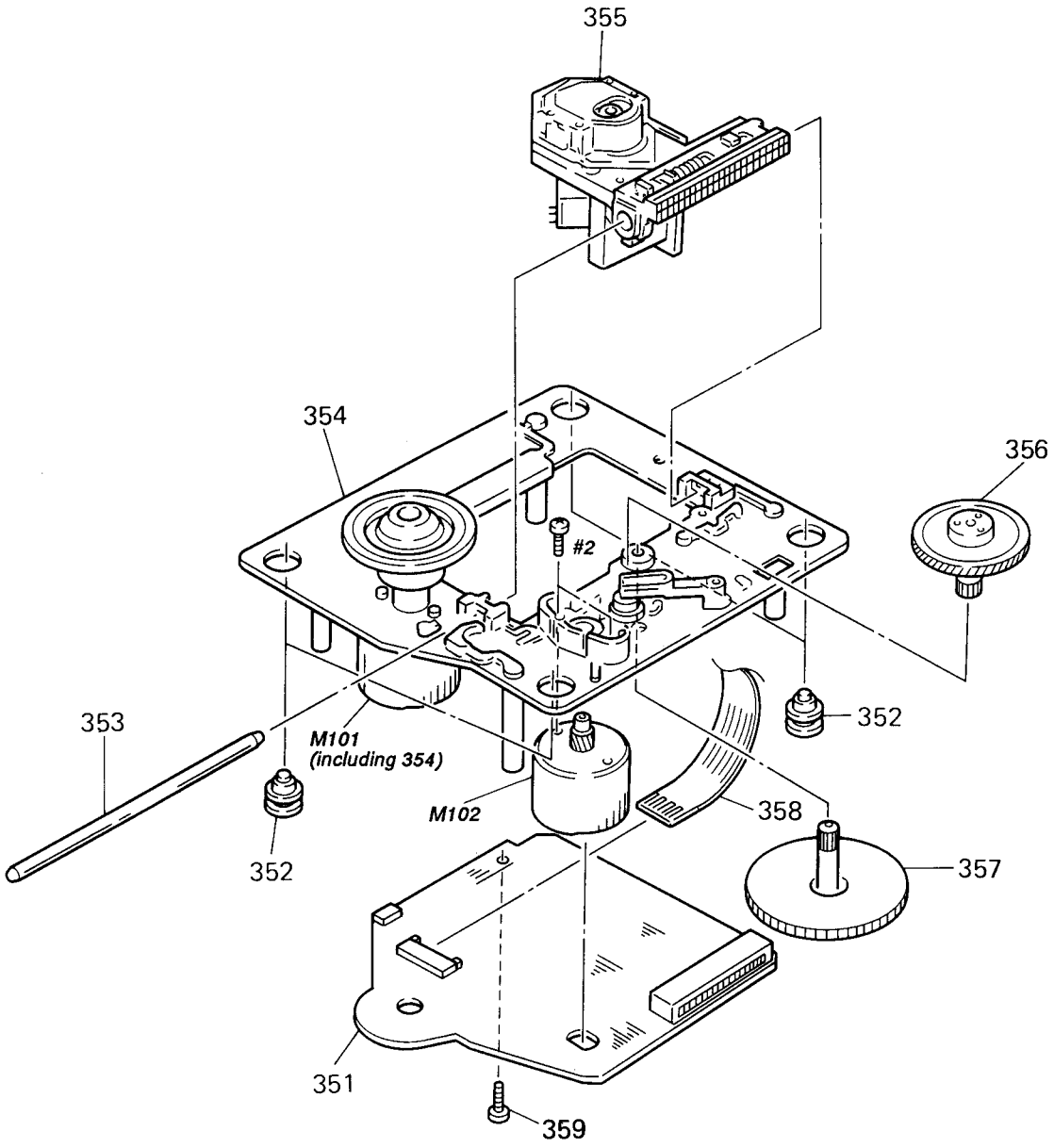
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

(3) CD MECHANISM SECTION (CDM14-5BD8A)



Ref. No.	Part No.	Description	Remark
* 301	1-632-202-11	LOADING BOARD	
302	4-933-111-01	CHASSIS (MD) (MADE IN JAPAN)	
302	4-933-111-11	CHASSIS (MD) (MADE IN FRANCE)	
* 303	4-917-583-21	BRACKET, YOKE	
304	4-927-649-01	BELT	
305	4-933-109-01	CAM	
306	4-927-651-01	PULLEY (S)	
307	4-927-628-01	GEAR (C)	
308	4-933-107-01	GEAR (PL)	
309	4-933-112-01	TABLE, DISK (MADE IN JAPAN)	
309	4-933-112-11	TABLE, DISK (MADE IN FRANCE)	
310	4-933-110-01	HOLDER (MG)	
* 311	1-452-538-11	MAGNET	
312	4-933-134-01	SCREW (+PTPWH M2.6X6)	
313	4-948-503-01	SPRING (BU), COMPRESSION	
314	4-933-129-01	HOLDER (BU)	
315	4-933-108-01	SHAFT (CAM)	
316	A-4604-363-A	MOTOR (L) ASSY	
M201	1-541-632-11	MOTOR, DC (LOADING)	

(4) OPTICAL PICK-UP BLOCK (BU-5BD8A)



Ref. No.	Part No.	Description	Remark
* 351	A-4617-977-A	BD BOARD, COMPLETE	
352	4-933-126-01	INSULATOR (A)	
353	4-917-565-01	SHAFT, SLED	
354	X-4917-523-3	BASE ASSY (OUTSERT) (Including M101)	

Ref. No.	Part No.	Description	Remark
⚠355	8-848-144-11	OPTICAL PICK-UP BLOCK KSS-240A	
356	4-917-567-01	GEAR (M)	
357	4-917-564-01	GEAR (P), FLATNESS	
358	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
359	4-951-620-01	SCREW (2.6X8), BVTP	
M102	X-4917-504-1	MOTOR ASSY (SLED)	

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

SECTION 6
ELECTRICAL PARTS LIST

BD

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	A-4617-977-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-163-005-11	CERAMIC CHIP	470PF	10% 50V	
C102	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C103	1-163-005-11	CERAMIC CHIP	470PF	10% 50V	
C104	1-164-505-11	CERAMIC CHIP	2.2uF	16V	
C105	1-135-155-21	TANTALUM CHIP	4.7uF	10% 16V	
C106	1-164-346-11	CERAMIC CHIP	1uF	16V	
C107	1-164-505-11	CERAMIC CHIP	2.2uF	16V	
C108	1-164-346-11	CERAMIC CHIP	1uF	16V	
C112	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C151	1-163-007-11	CERAMIC CHIP	680PF	10% 50V	
C152	1-163-007-11	CERAMIC CHIP	680PF	10% 50V	
C153	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C154	1-164-336-11	CERAMIC CHIP	0.33uF	25V	
C155	1-163-007-11	CERAMIC CHIP	680PF	10% 50V	
C156	1-163-007-11	CERAMIC CHIP	680PF	10% 50V	
C157	1-163-037-11	CERAMIC CHIP	0.022uF	10% 25V	
C158	1-163-037-11	CERAMIC CHIP	0.022uF	10% 25V	
C159	1-163-023-00	CERAMIC CHIP	0.015uF	5% 50V	
C160	1-163-019-00	CERAMIC CHIP	0.0068uF	10% 50V	
C181	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
		< CONNECTOR >			
CN101	1-568-796-11	SOCKET, CONNECTOR 22P			
CN102	1-568-795-11	SOCKET, CONNECTOR 12P			
CN103	1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P			
		< IC >			
IC101	8-752-344-48	IC CXD2501Q			
IC102	8-759-071-80	IC BA6297AFP			
IC103	8-759-040-83	IC BA6287F			
		< RESISTOR >			
R101	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R102	1-216-097-00	METAL CHIP	100K	5% 1/10W	
R103	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R104	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R105	1-216-097-00	METAL CHIP	100K	5% 1/10W	
R112	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R113	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R114	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R117	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R118	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R121	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R122	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R151	1-216-070-00	METAL CHIP	7.5K	5% 1/10W	
R152	1-216-070-00	METAL CHIP	7.5K	5% 1/10W	
R153	1-216-070-00	METAL CHIP	7.5K	5% 1/10W	
R154	1-216-070-00	METAL CHIP	7.5K	5% 1/10W	
R155	1-216-070-00	METAL CHIP	7.5K	5% 1/10W	
R156	1-216-070-00	METAL CHIP	7.5K	5% 1/10W	
R157	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R158	1-216-076-00	METAL CHIP	13K	5% 1/10W	
R159	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R160	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R161	1-216-093-00	METAL CHIP	68K	5% 1/10W	
R162	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R163	1-216-308-00	METAL CHIP	4.7	5% 1/10W	
R181	1-216-021-00	METAL CHIP	68	5% 1/10W	
R182	1-216-021-00	METAL CHIP	68	5% 1/10W	
		< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF (LIMIT)			

****

DISP FUNCTION

Ref. No.	Part No.	Description			Remark
*	A-4649-245-A	DISP BOARD, COMPLETE			
		**********			
*	4-947-170-01	HOLDER			
		< CAPACITOR >			
C401	1-164-159-11	CERAMIC	0.1uF		50V
C402	1-164-159-11	CERAMIC	0.1uF		50V
C403	1-164-159-11	CERAMIC	0.1uF		50V
C404	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
* CN401	1-568-844-11	SOCKET, CONNECTOR 29P			
* CN402	1-691-188-11	CONNECTOR, BOARD TO BOARD 18P			
		< DIODE >			
D401	8-719-987-63	DIODE	1N4148M		
D402	8-719-987-63	DIODE	1N4148M		
D403	8-719-987-63	DIODE	1N4148M		
D404	8-719-987-63	DIODE	1N4148M		
D405	8-719-987-63	DIODE	1N4148M		
D406	8-719-987-63	DIODE	1N4148M		
D407	8-719-987-63	DIODE	1N4148M		
D408	8-719-987-63	DIODE	1N4148M		
D409	8-719-987-63	DIODE	1N4148M		
D410	8-719-987-63	DIODE	1N4148M		
D411	8-719-987-63	DIODE	1N4148M		
D412	8-719-121-24	DIODE	RD9.1ES-L		
		< INDICATOR TUBE >			
FLD401	1-519-681-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC401	8-759-058-71	IC	uPD75216AGF-660-3BE		
IC402	8-749-922-36	IC	GP1U50XB		
		< RESISTOR >			
R401	1-249-435-11	CARBON	33K	5%	1/4W
R402	1-249-435-11	CARBON	33K	5%	1/4W
R403	1-249-435-11	CARBON	33K	5%	1/4W
R404	1-249-435-11	CARBON	33K	5%	1/4W
R405	1-249-435-11	CARBON	33K	5%	1/4W
R406	1-249-425-11	CARBON	4.7K	5%	1/4W
R407	1-249-425-11	CARBON	4.7K	5%	1/4W
R408	1-249-435-11	CARBON	33K	5%	1/4W
R409	1-249-439-11	CARBON	68K	5%	1/4W

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
S439	1-554-303-21	SWITCH, TACTILE (OPEN/CLOSE)	
S440	1-554-303-21	SWITCH, TACTILE (CONTINUE)	
S441	1-554-303-21	SWITCH, TACTILE (SHUFFLE)	
S442	1-554-303-21	SWITCH, TACTILE (PROGRAM)	
S491	1-554-118-00	SWITCH, PUSH (1 KEY) (POWER)	
S492	1-570-157-51	SWITCH, SLIDE (TIMER)	
		< CRYSTAL >	
X401	1-577-358-21	VIBRATOR, CERAMIC (4MHz)	
**********			
*	1-642-938-21	FUNCTION BOARD	
		**********	
		< CONNECTOR >	
* CN404	1-691-187-11	CONNECTOR, BOARD TO BOARD 18P	
		< SWITCH >	
S401	1-554-303-21	SWITCH, TACTILE (1)	
S402	1-554-303-21	SWITCH, TACTILE (2)	
S403	1-554-303-21	SWITCH, TACTILE (3)	
S404	1-554-303-21	SWITCH, TACTILE (4)	
S405	1-554-303-21	SWITCH, TACTILE (5)	
S406	1-554-303-21	SWITCH, TACTILE (6)	
S407	1-554-303-21	SWITCH, TACTILE (7)	
S408	1-554-303-21	SWITCH, TACTILE (8)	
S409	1-554-303-21	SWITCH, TACTILE (9)	
S410	1-554-303-21	SWITCH, TACTILE (10)	
S411	1-554-303-21	SWITCH, TACTILE (11)	
S412	1-554-303-21	SWITCH, TACTILE (12)	
S413	1-554-303-21	SWITCH, TACTILE (13)	
S414	1-554-303-21	SWITCH, TACTILE (14)	
S415	1-554-303-21	SWITCH, TACTILE (15)	
S416	1-554-303-21	SWITCH, TACTILE (16)	
S417	1-554-303-21	SWITCH, TACTILE (17)	
S418	1-554-303-21	SWITCH, TACTILE (18)	
S419	1-554-303-21	SWITCH, TACTILE (19)	
S420	1-554-303-21	SWITCH, TACTILE (20)	
S421	1-554-303-21	SWITCH, TACTILE (>20)	
S422	1-554-303-21	SWITCH, TACTILE (EDIT TIME FADE)	
S423	1-554-303-21	SWITCH, TACTILE (PEAK SEARCH)	
S424	1-554-303-21	SWITCH, TACTILE (TIME SET)	
S425	1-554-303-21	SWITCH, TACTILE (MUSIC SCAN)	
S426	1-554-303-21	SWITCH, TACTILE (TIME)	
S427	1-554-303-21	SWITCH, TACTILE (REPEAT)	
S428	1-554-303-21	SWITCH, TACTILE (FADER)	
S429	1-554-303-21	SWITCH, TACTILE (A.SPACE/A.CUE)	

FUNCTION | HP | LOADING | MAIN

Ref. No.	Part No.	Description			Remark
S430	1-554-303-21	SWITCH, TACTILE			
S431	1-554-303-21	SWITCH, TACTILE			
S432	1-554-303-21	SWITCH, TACTILE			
S433	1-554-303-21	SWITCH, TACTILE			
S434	1-554-303-21	SWITCH, TACTILE			
S435	1-554-303-21	SWITCH, TACTILE			
S436	1-554-303-21	SWITCH, TACTILE			
S437	1-554-303-21	SWITCH, TACTILE (CHECK)			
S438	1-554-303-21	SWITCH, TACTILE (CLEAR)			
**********					
*	1-642-937-21	HP BOARD			
		********			
		< CAPACITOR >			
C481	1-162-290-31	CERAMIC	470PF	10%	50V
C482	1-162-290-31	CERAMIC	470PF	10%	50V
C483	1-164-159-11	CERAMIC	0.1uF		50V
		< JACK >			
J511	1-568-519-41	JACK, LARGE TYPE (PHONES)			
		< RESISTOR >			
R481	1-249-402-11	CARBON	56	5% 1/4W	
R482	1-249-402-11	CARBON	56	5% 1/4W	
**********					
*	1-632-202-11	LOADING BOARD			
		**********			
		< CONNECTOR >			
* CN301	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			
		< SWITCH >			
S271	1-572-086-11	SWITCH, LEAF (LOAD OUT)			
S272	1-572-086-11	SWITCH, LEAF (LOAD IN)			
**********					
*	A-4649-277-A	MAIN BOARD, COMPLETE			
		**********			
*	4-941-237-01	HEAT SINK			
		< CAPACITOR >			
C201	1-124-572-11	ELECT	100uF	20%	63V
C202	1-126-059-11	ELECT	10uF	20%	50V
C203	1-124-360-00	ELECT	1000uF	20%	16V
C204	1-126-937-11	ELECT	4700uF	20%	16V

Ref. No.	Part No.	Description			Remark
C205	1-126-163-11	ELECT	4.7uF	20%	50V
C206	1-126-059-11	ELECT	10uF	20%	50V
C207	1-126-059-11	ELECT	10uF	20%	50V
C208	1-124-997-11	ELECT	470uF	20%	10V
C209	1-124-997-11	ELECT	470uF	20%	10V
C211	1-124-997-11	ELECT	470uF	20%	10V
C212	1-124-997-11	ELECT	470uF	20%	10V
C213	1-130-487-00	MYLAR	0.022uF	5%	50V
C214	1-126-023-11	ELECT	100uF	20%	16V
C221	1-164-159-11	CERAMIC	0.1uF		50V
C301	1-126-022-11	ELECT	47uF	20%	16V
C302	1-126-301-11	ELECT	1uF	20%	50V
C303	1-164-159-11	CERAMIC	0.1uF		50V
C304	1-164-159-11	CERAMIC	0.1uF		50V
C305	1-126-022-11	ELECT	47uF	20%	16V
C306	1-164-159-11	CERAMIC	0.1uF		50V
C307	1-164-159-11	CERAMIC	0.1uF		50V
C308	1-164-159-11	CERAMIC	0.1uF		50V
C309	1-164-159-11	CERAMIC	0.1uF		50V
C311	1-130-491-00	MYLAR	0.047uF	5%	50V
C312	1-161-374-11	CERAMIC	0.0015uF	20%	50V
C313	1-161-494-00	CERAMIC	0.022uF		25V
C314	1-162-306-11	CERAMIC	0.01uF	20%	16V
C315	1-126-300-11	ELECT	0.47uF	20%	50V
C316	1-161-494-00	CERAMIC	0.022uF		25V
C317	1-164-159-11	CERAMIC	0.1uF		50V
C319	1-162-282-31	CERAMIC	100PF	10%	50V
C320	1-130-483-00	MYLAR	0.01uF	5%	50V
C321	1-162-208-31	CERAMIC	24PF	5%	50V
C322	1-126-022-11	ELECT	47uF	20%	16V
C323	1-164-159-11	CERAMIC	0.1uF		50V
C324	1-164-159-11	CERAMIC	0.1uF		50V
C325	1-162-205-31	CERAMIC	18PF	5%	50V
C326	1-162-205-31	CERAMIC	18PF	5%	50V
C327	1-161-494-00	CERAMIC	0.022uF		25V
C328	1-126-059-11	ELECT	10uF	20%	50V
C329	1-126-022-11	ELECT	47uF	20%	16V
C331	1-161-494-00	CERAMIC	0.022uF		25V
C332	1-164-159-11	CERAMIC	0.1uF		50V
C333	1-162-294-31	CERAMIC	0.001uF	10%	50V
C351	1-126-022-11	ELECT	47uF	20%	16V
C352	1-164-159-11	CERAMIC	0.1uF		50V
C353	1-126-022-11	ELECT	47uF	20%	16V
C354	1-161-494-00	CERAMIC	0.022uF		25V
C355	1-126-022-11	ELECT	47uF	20%	16V
C356	1-164-159-11	CERAMIC	0.1uF		50V
C357	1-130-495-00	MYLAR	0.1uF	5%	50V
C358	1-130-495-00	MYLAR	0.1uF	5%	50V
C361	1-162-280-31	CERAMIC	82PF	10%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C362	1-162-280-31	CERAMIC	82PF	10%	50V
C363	1-162-213-31	CERAMIC	39PF	5%	50V
C364	1-162-213-31	CERAMIC	39PF	5%	50V
C365	1-162-213-31	CERAMIC	39PF	5%	50V
C366	1-162-213-31	CERAMIC	39PF	5%	50V
C367	1-161-494-00	CERAMIC	0.022uF		25V
C368	1-161-494-00	CERAMIC	0.022uF		25V
C371	1-130-479-00	MYLAR	0.0047uF	5%	50V
C372	1-130-479-00	MYLAR	0.0047uF	5%	50V
C373	1-130-472-00	MYLAR	0.0012uF	5%	50V
C374	1-130-472-00	MYLAR	0.0012uF	5%	50V
C377	1-126-022-11	ELECT	47uF	20%	16V
C378	1-126-022-11	ELECT	47uF	20%	16V
C379	1-130-473-00	MYLAR	0.0015uF	5%	50V
C380	1-130-473-00	MYLAR	0.0015uF	5%	50V
C391	1-162-286-31	CERAMIC	220PF	10%	50V
C393	1-164-159-11	CERAMIC	0.1uF		50V
C397	1-164-159-11	CERAMIC	0.1uF		50V

< CONNECTOR >

* CN201	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P	
* CN301	1-568-822-11	SOCKET, CONNECTOR 22P	
* CN302	1-568-844-11	SOCKET, CONNECTOR 29P	
* CN381	1-568-832-11	SOCKET, CONNECTOR 13P	

< DIODE >

D201	8-719-200-82	DIODE	11ES2
D202	8-719-110-03	DIODE	RD7.5ES-B2
D203	8-719-200-82	DIODE	11ES2
D204	8-719-200-82	DIODE	11ES2
D205	8-719-200-82	DIODE	11ES2
D206	8-719-200-82	DIODE	11ES2
D208	8-719-109-89	DIODE	RD5.6ES-B2
D209	8-719-987-63	DIODE	1N4148M
D328	8-719-987-63	DIODE	1N4148M
D344	8-719-987-63	DIODE	1N4148M

< IC >

IC201	8-759-633-42	IC	M5293L
IC202	8-759-630-21	IC	M5290P-16
IC203	8-759-945-58	IC	RC4558P
IC204	8-759-604-86	IC	M5F7807L
IC301	8-752-337-26	IC	CXD2500AQ
IC302	8-752-342-65	IC	CXD2560M
IC303	8-752-349-02	IC	CXD2561AM-1
IC306	8-759-503-91	IC	TL082ACP
IC307	8-759-900-72	IC	NE5532P
IC391	8-749-921-20	IC	T-1550

Ref. No.	Part No.	Description	Remark

< JACK >

* J381	1-569-443-11	JACK, PIN 4P (LINE OUT FIXED/VARIABLE)	

< COIL >

L305	1-408-403-00	INDUCTOR 3.3uH	
L306	1-408-403-00	INDUCTOR 3.3uH	
L321	1-408-403-00	INDUCTOR 3.3uH	

< TRANSISTOR >

Q201	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q202	8-729-140-96	TRANSISTOR	2SD774-34
Q203	8-729-141-83	TRANSISTOR	2SB1094-LK
Q204	8-729-900-65	TRANSISTOR	DTA144ES
Q205	8-729-900-89	TRANSISTOR	DTC144ES
Q206	8-729-900-89	TRANSISTOR	DTC144ES
Q209	8-729-281-52	TRANSISTOR	2SC1815-Y
Q341	8-729-900-65	TRANSISTOR	DTA144ES
Q342	8-729-900-65	TRANSISTOR	DTA144ES
Q343	8-729-900-65	TRANSISTOR	DTA144ES
Q344	8-729-900-89	TRANSISTOR	DTC144ES
Q371	8-729-141-30	TRANSISTOR	2SC3623A-LK
Q372	8-729-141-30	TRANSISTOR	2SC3623A-LK
Q373	8-729-141-30	TRANSISTOR	2SC3623A-LK
Q374	8-729-141-30	TRANSISTOR	2SC3623A-LK
Q375	8-729-231-55	TRANSISTOR	2SC2878-AB
Q376	8-729-231-55	TRANSISTOR	2SC2878-AB
Q393	8-729-119-76	TRANSISTOR	2SA1175-HFE

< RESISTOR >

R201	1-249-435-11	CARBON	33K	5%	1/4W
R202	1-249-438-11	CARBON	56K	5%	1/4W
R203	1-249-429-11	CARBON	10K	5%	1/4W
R204	1-249-425-11	CARBON	4.7K	5%	1/4W
R205	1-249-425-11	CARBON	4.7K	5%	1/4W
R208	1-249-423-11	CARBON	3.3K	5%	1/4W
R209	1-249-413-11	CARBON	470	5%	1/4W
R210	1-249-429-11	CARBON	10K	5%	1/4W
R211	1-249-410-11	CARBON	270	5%	1/4W
R213	1-249-417-11	CARBON	1K	5%	1/4W
R214	1-249-417-11	CARBON	1K	5%	1/4W
R301	1-249-417-11	CARBON	1K	5%	1/4W
R302	1-249-417-11	CARBON	1K	5%	1/4W
R303	1-249-421-11	CARBON	2.2K	5%	1/4W
R304	1-249-417-11	CARBON	1K	5%	1/4W
R305	1-249-411-11	CARBON	330	5%	1/4W
R306	1-249-413-11	CARBON	470	5%	1/4W
R309	1-249-405-11	CARBON	100	5%	1/4W
R311	1-249-423-11	CARBON	3.3K	5%	1/4W

MAIN **MOTOR**

Ref. No.	Part No.	Description				Remark
R312	1-249-429-11	CARBON	10K	5%	1/4W	
R313	1-249-423-11	CARBON	3.3K	5%	1/4W	
R314	1-249-429-11	CARBON	10K	5%	1/4W	
R315	1-249-417-11	CARBON	1K	5%	1/4W	
R316	1-249-417-11	CARBON	1K	5%	1/4W	
R317	1-249-419-11	CARBON	1.5K	5%	1/4W	
R318	1-249-441-11	CARBON	100K	5%	1/4W	
R319	1-247-903-00	CARBON	1M	5%	1/4W	
R320	1-249-417-11	CARBON	1K	5%	1/4W	
R321	1-249-417-11	CARBON	1K	5%	1/4W	
R322	1-249-417-11	CARBON	1K	5%	1/4W	
R323	1-249-417-11	CARBON	1K	5%	1/4W	
R324	1-249-417-11	CARBON	1K	5%	1/4W	
R325	1-249-417-11	CARBON	1K	5%	1/4W	
R326	1-249-417-11	CARBON	1K	5%	1/4W	
R327	1-247-903-00	CARBON	1M	5%	1/4W	
R328	1-249-429-11	CARBON	10K	5%	1/4W	
R331	1-249-429-11	CARBON	10K	5%	1/4W	
R332	1-249-429-11	CARBON	10K	5%	1/4W	
R333	1-249-429-11	CARBON	10K	5%	1/4W	
R334	1-249-429-11	CARBON	10K	5%	1/4W	
R343	1-249-441-11	CARBON	100K	5%	1/4W	
R344	1-249-441-11	CARBON	100K	5%	1/4W	
R345	1-249-425-11	CARBON	4.7K	5%	1/4W	
R346	1-249-425-11	CARBON	4.7K	5%	1/4W	
R347	1-249-441-11	CARBON	100K	5%	1/4W	
R348	1-249-429-11	CARBON	10K	5%	1/4W	
R351	1-249-436-11	CARBON	39K	5%	1/4W	
R352	1-249-436-11	CARBON	39K	5%	1/4W	
R353	1-249-436-11	CARBON	39K	5%	1/4W	
R354	1-249-436-11	CARBON	39K	5%	1/4W	
R355	1-249-436-11	CARBON	39K	5%	1/4W	
R356	1-249-436-11	CARBON	39K	5%	1/4W	
R357	1-249-436-11	CARBON	39K	5%	1/4W	
R358	1-249-436-11	CARBON	39K	5%	1/4W	
R361	1-249-431-11	CARBON	15K	5%	1/4W	
R362	1-249-431-11	CARBON	15K	5%	1/4W	
R363	1-249-431-11	CARBON	15K	5%	1/4W	
R364	1-249-431-11	CARBON	15K	5%	1/4W	
R365	1-249-438-11	CARBON	56K	5%	1/4W	
R366	1-249-438-11	CARBON	56K	5%	1/4W	
R367	1-249-438-11	CARBON	56K	5%	1/4W	
R368	1-249-438-11	CARBON	56K	5%	1/4W	
R369	1-249-419-11	CARBON	1.5K	5%	1/4W	
R370	1-249-419-11	CARBON	1.5K	5%	1/4W	
R371	1-249-419-11	CARBON	1.5K	5%	1/4W	
R372	1-249-419-11	CARBON	1.5K	5%	1/4W	
R373	1-247-887-00	CARBON	220K	5%	1/4W	
R374	1-247-887-00	CARBON	220K	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R375	1-249-409-11	CARBON	220	5%	1/4W	
R376	1-249-409-11	CARBON	220	5%	1/4W	
R377	1-249-409-11	CARBON	220	5%	1/4W	
R378	1-249-409-11	CARBON	220	5%	1/4W	
R379	1-249-425-11	CARBON	4.7K	5%	1/4W	
R380	1-249-425-11	CARBON	4.7K	5%	1/4W	
R381	1-249-425-11	CARBON	4.7K	5%	1/4W	
R382	1-249-425-11	CARBON	4.7K	5%	1/4W	
R383	1-249-413-11	CARBON	470	5%	1/4W	
R384	1-249-413-11	CARBON	470	5%	1/4W	
R385	1-249-393-11	CARBON	10	5%	1/4W	
R386	1-249-393-11	CARBON	10	5%	1/4W	
R389	1-249-413-11	CARBON	470	5%	1/4W	
R390	1-249-413-11	CARBON	470	5%	1/4W	
R392	1-249-405-11	CARBON	100	5%	1/4W	
R393	1-249-406-11	CARBON	120	5%	1/4W	
R394	1-249-435-11	CARBON	33K	5%	1/4W	
		< CRYSTAL >				
X327	1-579-314-11	VIBRATOR, CRYSTAL (22.5MHz)				
**********						
*	1-642-935-21	MOTOR VR BOARD				
		**********				
*	4-922-980-01	HOLDER (LED)				
		< CAPACITOR >				
C451	1-124-994-11	ELECT	100uF	20%	10V	
C452	1-124-994-11	ELECT	100uF	20%	10V	
C471	1-124-994-11	ELECT	100uF	20%	10V	
C472	1-124-277-11	ELECT	4.7uF	20%	35V	
		< CONNECTOR >				
* CN451	1-568-832-11	SOCKET, CONNECTOR 13P				
* CN472	1-568-941-11	PIN, CONNECTOR 3P				
		< DIODE >				
D471	8-719-970-49	DIODE BR4361F				
		< IC >				
IC451	8-759-981-89	IC RC4556S				
IC471	8-759-962-08	IC BA6208				

MOTOR

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R451	1-249-435-11	CARBON	33K	5%	1/4W
R452	1-249-435-11	CARBON	33K	5%	1/4W
R453	1-249-432-11	CARBON	18K	5%	1/4W
R454	1-249-432-11	CARBON	18K	5%	1/4W
R455	1-249-422-11	CARBON	2.7K	5%	1/4W
R456	1-249-422-11	CARBON	2.7K	5%	1/4W
R457	1-249-429-11	CARBON	10K	5%	1/4W
R458	1-249-429-11	CARBON	10K	5%	1/4W
R461	1-249-399-11	CARBON	33	5%	1/4W
R462	1-249-399-11	CARBON	33	5%	1/4W
R471	1-249-411-11	CARBON	330	5%	1/4W
R472	1-249-417-11	CARBON	1K	5%	1/4W
R473	1-249-417-11	CARBON	1K	5%	1/4W
		< VARIABLE RESISTOR >			
RV451	1-238-974-11	RES, VAR, CARBON 10K/10K (LINE OUT PHONE LEVEL)			

****

MISCELLANEOUS
****

14	1-690-782-11	WIRE (FLAT TYPE) (29 CORE)
27	1-690-392-11	WIRE, FLAT TYPE (13 CORE)
53	1-575-002-11	WIRE, FLAT TYPE (22 CORE)
⚠58	1-558-946-21	CORD, POWER (UK)
⚠58	1-575-651-21	CORD, POWER (AEP)
* 311	1-452-538-11	MAGNET
⚠355	8-848-144-11	DEVICE, OPTICAL KSS-240A
358	1-575-001-11	WIRE, FLAT TYPE (12 CORE)
M102	X-4917-504-1	MOTOR ASSY (SLED)
M201	1-541-632-11	MOTOR, DC (LOADING)
⚠PT1	1-449-922-11	TRANSFORMER, POWER

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-465-956-11	REMOTE COMMANDER (RM-D797)	
	1-558-271-11	CORD, CONNECTION	
*	3-704-343-01	SHEET (STANDARD), PROTECTION	
	3-707-584-01	COVER, BATTERY	
	3-754-666-11	MANUAL, INSTRUCTION (MADE IN JAPAN:AEP) ENGLISH, FRENCH, SPANISH, PORTUGUESE)	
	3-754-666-41	MANUAL, INSTRUCTION (MADE IN JAPAN:AEP) (ITALIAN, GERMAN, SWEDISH, DUTCH)	
	3-754-666-51	MANUAL, INSTRUCTION (MADE IN FRANCE:AEP, UK) (ENGLISH, FRENCH, SPANISH, PORTUGUESE)	
	3-754-666-61	MANUAL, INSTRUCTION (MADE IN FRANCE:AEP) (ITALIAN, GERMAN, SWEDISH, DUTCH)	
*	4-941-548-01	LABEL, CLASS 1	
*	4-941-925-01	CUSHION	
*	4-948-308-31	INDIVIDUAL CARTON (MADE IN JAPAN)	
*	4-948-881-11	INDIVIDUAL CARTON (MADE IN FRANCE)	

****

HARDWARE LIST

#1	7-621-775-10	SCREW +B 2.6X4
#2	7-621-255-15	SCREW +P 2X3
#3	7-682-547-09	SCREW +B 3X6
#4	7-682-548-04	SCREW +BVTT 3X8 (S)
#5	7-682-548-09	SCREW +BVTT 3X8 (S)
#6	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S
#7	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

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